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Gro. Ball
IN C.
WEST CHICAGO
ILLINOIS

A CONTRACTOR OF THE PARTY OF TH

BALL

MUMS
CARNATIONS
BULBS FOR
1946

Picturing the New White Pompon "PINOCCHIO"

THE PROPERTY OF THE PROPERTY OF THE PARTY OF

Groß BETTER MUMS FOR 1946 FROM-

INSTRUCTIONS FOR ORDERING

Each year we try to improve the high quality of our disease-free Mum cuttings, as well as the service we give the florist.

This catalog contains valuable cultural directions for the growing of Mums, both inside the greenhouse and outside under shade cloth.

We have arranged to furnish more cuttings, better grown, better packed, and delivered to you at just the time you desire to plant them.

TERMS OF SALE

- 1. The minimum total order that can be accepted is 250 cuttings.
- 2. Fifty of each variety is the minimum that can be supplied.
- 3. More than 50 of a variety must be in multiples of 50.
- 4. Quantity discounts will be allowed on each order for more than 10,000 cuttings as follows:

10,000	to	24,950	21/2%
25,000	to	49,950	5%
50,000	to	99,950	71/2%
100,000	to	249,950	10%
250,000	up		21/2%

Orders must be marked with a definite delivery date, such as February—Late March—May 10th—etc. Orders marked "Early Delivery"—"Deliver when ready"—"Spring Delivery" are too indefinite. Give us the approximate time when you can use these cuttings, and we will ship them at this date if you order early.

Orders cannot be changed or cancelled less than thirty days before shipping time.

SUBSTITUTIONS

We will substitute varieties as good or better for any items not listed in this catalog unless order is marked NO SUBSTITUTIONS.

SHIPPING INFORMATION

All our stock is shipped by Express COLLECT. All cuttings must be in perfect condition before being inspected and accepted by the Express Company. Therefore, if there is any damage enroute from being broken, heated, or frozen, call your express agent to inspect the same, marking on express receipt the condition of the package and amount of damage, etc. You must file claim, as our responsibility ceases when Express Co. accepts shipment. We cannot be responsible for the safe arrival of your cuttings.

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New Mums for 1946

We present four new standards and five new pompons for the coming season. We believe each one to be a valuable addition to our list. They have been carefully grown and tested for several years, and each variety looks like a leader in its class. If you are looking for an improvement in these types of Mums, we believe the following will interest you.

When ordering, carefully follow instructions on inside cover page.

GRANITE STATE (Geo. J. Ball, Inc.)

A medium size, clear white mum ideally suited for pot plant culture. The flower is of good substance, semi-incurved form and matures normally October 25. The growth habit is similar to Richard Mandel, being dwarf and compact. Granite State responds well to early shade, producing a quality flower much superior to Christina. A fine contribution to pot plant culture from the University of New Hampshire and distributed by us. (See cut on back cover.)

Price for rooted Cuttings \$100.00 per 1000



HARVESTER

(Yoder Bros.)

An intense canary yellow standard that blooms for Thanksgiving. The flower is of medium size, hard and durable. Its bright, lustrous color; its wax-like petals and its very attractive semi-incurved form give this variety an appearance of substance and freshness that commands immediate attention. The foliage is attractive and healthy and is carried right up to the base of the flower. The stems are medium in size, strong and rigid. Harvester is a good shipper and is well liked by the retail trade. We recommend this variety to all growers as an easily grown bright yellow standard for the Thanksgiving season.

1946 Novelties



MARGARET MOELLER

(above)
(Yoder Bros.)

A clear white standard that matures December 10, following December Glory and just preceding Smith's Late White. It is a very formal, tightly incurved flower and possesses excellent substance.

The growth habit is clean and vigorous with beautiful foliage carried well up to the flower. The medium-sized stems are extremely rigid. Its shipping and keeping qualities are unequalled by any standard in its season.

This variety responds well in either raised benches or ground beds. However, it is especially suited to ground bed culture, and attains its largest size and greatest commercial value when handled in this manner.

By the application of electric lights, this variety can easily be delayed for Christmas and later flowering.

Price for rooted Cuttings \$100.00 per 1000

PINOCCHIO

(Yoder Bros.)

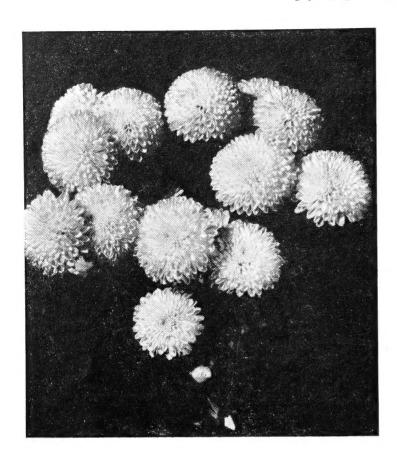
A glistening white button for early cloth house shading. It responds beautifully to black cloth treatment and for this reason we believe it will fill the insistent demand for a small white pompon that can be easily shaded into late August and early September maturity.

The flower is a beautifully formed tightly quilled button of lively and dainiy appearance. It is of hard substance and has good keeping and shipping qualities. The color is a clear sparkling white.

The growth is vigorous, taller than Irene and requires less time between pinching and shading to form a fuller spray of flowers.

Bunches of Pinocchio appear smarter than Irene because the spray formation is more nearly single planed; and fresher because of the more uniform opening of its flowers. (See cut on front cover.)

1946 Novelties



MATCHLESS

(De Petris)

Judged by present day standards this variety by all odds seems to be the best white pompon introduced to date.

Matchless possesses large solid blooms of great substance. These are well placed on strong sprays. Stems are of ample length and are clean, straight and rigid. Its growth is very free and robust with beautiful light green luxuriant foliage.

The variety breaks freely from pinches and produces well under nearly all conditions, the production being very good either in ground or raised benches.

Normal blooming date November 20th to 22nd, making it ideal for Thanksgiving.

Matchless shades well and for this purpose should be an excellent variety to follow Bushnell and similar varieties.

We can recommend Matchless as a productive and an easily grown variety that responds well to nearly all types of cultural conditions besides being a pompon of very high quality.

Awarded Chrysanthemum Society of America's gold medal at the National Chrysanthemum Show in 1943.

Price for rooted Cuttings \$100.00 per 1000

GOLDEN EMBLEM

(De Petris)

Medium sized clear yellow pompon that blooms normally the end of November. The flowers are produced on well spaced sprays and are of close compact form with very good substance.

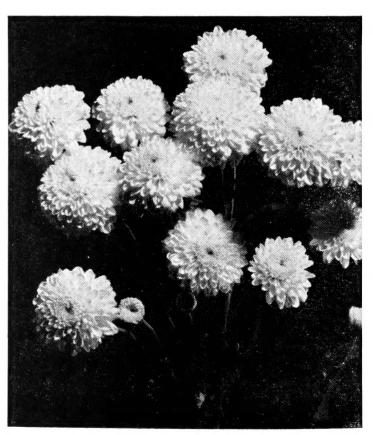
Golden Emblem is easy to grow and responds well to shading.

It combines good quality with good production and disease resistance.

Good results are obtained either in ground or raised benches. It will not produce blind growth so common in late varieties.

Maturing the latter part of November, Golden Emblem will be found to be a welcome addition to yellow pompons in that season where quality and easy growth is combined with good production.

Price for rooted Cuttings \$100.00 per 1000



YELLOW CAMEO

(Yoder Bros.)

A deep lemon yellow sport from Cameo. The form and growth habit are identical with the parent variety. Because of the popularity of Cameo, this attractive yellow counterpart should be a very valuable variety for early December flowering.

1946 Novelties



RUSTICON

(Yoder Bros.)

An intense rust red pompon for Thanksgiving. The flower is of a very attractive, decorative form having excellent substance and a very full petallage.

The growth is vigorous and persistent. It is of extremely easy culture, its dark rigid sprays and high production combine to give it a definite place in the highly competitive Thanksgiving season.

It possesses more vigor than Red Rolinda, a quality of flower far superior to Legal Tender and just precedes Bronze Goldsmith in flowering.

The very appealing color of Rusticon is a rich blend of crimson and rust bronze which commands immediate attention at Thanksgiving.

Price for rooted Cuttings \$100.00 per 1000

IVANHOE

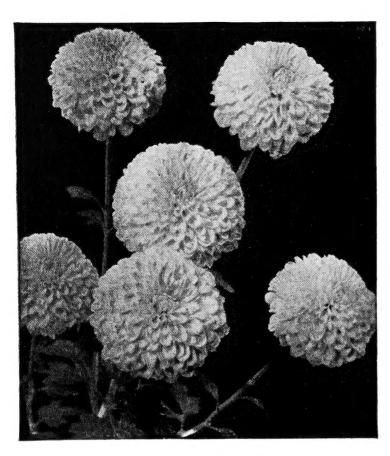
(Yoder Bros.)

A small reddish bronze mum for disbudding, equally suitable as a cut flower or pot plant, maturing November 1. The flower is decorative in form, similar but more formal than Glitters. Its hard substance gives it unusual shipping quality. Foliage is small and is carried right up to the bloom. Stems are rigid and must be disbudded to a single flower. Like the Mandel varieties, it is vigorous and persistent, dependably producing a uniform crop. Because of its free breaking habit, it will stand fairly close cropping and still produce uniform stems. This same quality results in well shaped plants when grown in pots.

Ivanhoe holds its color well under early shade when good bronze disbuds command a premium market.



Recent Novelties



MAHOGANY VIKING (Yoder Bros.)

This novel and beautifully colored sport from Viking has a more vigorous growth habit than its parent.

The color is intensified to a rich mahogany bronze. The flower is larger and bunches to greater advantage than the parent variety. Growers should find this variety more profitable than the original Viking.

Price for rooted Cuttings \$80.00 per 1000

(Yoder Bros.)

A beautiful medium-sized bittersweet red daisy that blooms normally November 8. The flower possesses good substance and keeping qualities. It retains its brilliance with full maturity. The flower has from 3 to 4 rows of stiff, broad petals that lay perfectly flat, giving a fresh, lively and attractive appearance. Bittersweet has a stiff wiry stem and produces well-branched sprays. The foliage is small, dark-green and glossy. It bunches well and because of its striking color and attractive foliage, it commands attention when displayed with other varieties. Bittersweet creates its own market demand.

Price for rooted Cuttings \$100.00 per 1000

CRIMSON CARNELIA

(Yoder Bros.)

A distinct color variation from the original variety, Carnelia. The color of this sport is an intense crimson which holds well. It possesses all the good qualities and characteristics of the parent variety.

Price for rooted Cuttings \$80.00 per 1000

BARCAROLE

(Yoder Bros.)

An intense golden yellow pompon that blooms normally November 5. The habit of growth is outstandingly vigorous. It is of extremely easy culture and its smart, dark, glossy foliage, its rigid sprays and high production mark it as a real bread and butter variety. It responds rapidly to shade, flowering with Nuggets when shaded with that variety. We suggest that those who now grow Mary Lennon Hall under black cloth will find Barcarole a more satisfactory variety.

Price for rooted Cuttings \$100.00 per 1000

MINUET

(Yoder Bros.)

A soft pink pompon similar in color to Mrs. Morgan Bulkeley and equal or better than that variety in flower quality and growth habit. Minuet provides a pink pompon for Thanksgiving that is so superior to existing late November pink pompons that it should become the leading variety for that season.

Price for rooted Cuttings \$80.00 per 1000

ARGO
(De Petris)

A medium-sized pompon with good decorative form and excellent substance for Thanksgiving and early December. The color is a beautiful bronzy orange, shading to a rust. In color and in growth habit, which is somewhat dwarf and rigid, it resembles the later variety Cavalcade. It makes its growth late in the season and therefore should not be planted late. Argo is a quality pompon with a very appealing color which sells on sight.

Price for rooted Cuttings \$80.00 per 1000

APRICOT VALENCIA

(Yoder Bros.)

A beautiful apricot or rosewood buff sport from Dark Pink Valencia. In growth and form it is identical with this variety, being less vegetative than the original Valencia. The color is distinctly new in this group. It is a favorite with retailers. To the grower of Valencia, we say without hesitation that Apricot Valencia is a valuable addition to this group.

Price for rooted Cuttings \$50.00 per 1000

GOLDEN JANE

(Yoder Bros.)

A beautiful golden intensification of the original buff-bronze Jane. Much brighter and more vivid in color and for this reason a more desirable variety. We predict this variety will replace Jane.

Recent Novelties (continued)

TRIANON

(De Petris)

The outstanding merits of Trianon are its appealing crimson bronze color, the perfect form of its small round flowers, its hard substance and its attractive bunches and fine shipping qualities. Its season is that of the well-known variety New York. It is better than that variety in flower color and form. It is in a class with the variety Fez in respect to the quality of flower and superior to that variety in type of growth and the resistance of its foliage to the ravages of insects and disease. It responds normally to shade and holds its color well.

Price for rooted Cuttings \$80.00 per 1000

BRONZE GOLDSMITH

(Yoder Bros.)

A sport from the original variety Goldsmith, similar to and richer in color than well-grown Natoma or Red Princeton. Its color is always in keen demand. In growth and season, it is identical to the parent variety. Carefully grown, Bronze Goldsmith on disbudded sprays is, for bronze pompons, unsurpassed in quality and value for late September and October flowering in the cloth house.

Price for rooted Cuttings \$80.00 per 1000

ANACONDA

(De Petris)

A large-flowered incurved commercial possessing excellent substance. It matures November 10, just following Detroit News and preceding Mrs. D. F. Roy. The color is a deep coppery red with golden bronze reverse. A combination very similar to the variety Mrs. D. F. Roy. When shaded for early October, the color is a rich golden copper.

Price for rooted Cuttings \$50.00 per 1000

CASSANDRA

(De Petris)

A bright orange bronze pompon that is a distinct advance in color for its season of November 10. It has fully rounded form and good substance. Cassandra has proven an excellent variety for cloth house shade, producing an early crop with little fading. This variety has a habit of forming early crowns which can be overcome by a late pinch not exceeding 30 days prior to the application of shade, otherwise its cultural requirements are identical with Mrs. Bulkeley and Rev. Bushnell.

Price for rooted Cuttings \$50.00 per 1000

RIVIERA

(Yoder Bros.)

A luminous pink decorative pompon blooming normally about December 10, just nicely following Minuet. This variety finishes beautifully, maintaining its color and form much better than existing varieties that bloom at the same season. The flower is showy and of good substance. Its heavy petallage permits an extended season of cutting. The growth is vigorous, of medium height and high production. The spray resembles that of Snow, being extremely rigid and well branched. With the application of electric lights Riviera is easily delayed to the important Christmas season.

Price for rooted Cuttings \$50.00 per 1000

VESPER

(Yoder Bros.)

This variety combines the flower quality of Rev. Bushnell with the free growth and high production of Sea Gull. It is a pure white pompon of unusually good substance, blooming normally November 10. Its heavy petallage permits a long period of cutting. Under black cloth shade, it just follows Sea Gull. Of free growth and easy culture, Vesper raises the existing standard of dependable and profitable early white pompons.

Price for rooted Cuttings \$50.00 per 1000

NAVAHO

(Yoder Bros.)

A medium-sized deep crimson, decorative pompon which changes to a reddish bronze under early shading. It responds well to black cloth and fills a great need for a cloth house variety in its color range. It is at its best when growth is kept soft, plants are generously spaced, and its crop limited to 3 or 4 stems per plant. When so grown, it is undoubtedly the best red pompon for cloth house culture.

Price for rooted Cuttings \$50.00 per 1000

PIXIE

(Yoder Bros.)

A small, well-rounded pompon somewhat larger than Nuggets, with a color that is much brighter and more attractive. It is a remarkably good shipper. It responds beautifully to shading and is therefore an important yellow pompon for the cloth house during September and October. It blooms normally November 10. For the grower who wants small hard pompons of simple, easy culture, we recommend Pixie.

Recent Novelties (continued)



SYLVANNA

(Yoder Bros.)

One of the few cloth house daisies that combine a high quality flower and a growth habit that can be depended upon to produce a heavy crop under a wide diversity of soils and cultural conditions. The color, a brilliant orange bronze, holds well with full maturity, allowing an extended period for marketing. When successively shaded, Sylvanna makes a fine cut flower from the middle of September until November 10, its natural maturing date.

Price for rooted Cuttings \$80.00 per 1000

IVORY SNOW

(Yoder Bros.)

A very soft ivory yellow sport of Snow that provides a color that is extremely useful to

the floral designer.

The very favorable market response to Ivory Snow, together with the increasing popularity of the pale pastel shades of color, indicate clearly that growers of the variety Snow will find this new sport a valuable and profitable supplement.

Price for rooted Cuttings \$80.00 per 1000

NEVADA

(De Petris)

A desirable and useful anemone producing flowers of high quality for Thanksgiving. The color is pure white with chartreuse green center. This variety responds well to generous spacing and disbudded spray technique. For the grower who appreciates Europa, Valencia and its sports, Nevada provides a white of equal quality.

Price for rooted Cuttings \$80.00 per 1000

REVELATION

(Yoder Bros.)

Revelation fills the need for quality white pompons for the January market. It will thrive and produce abundantly under any condition or method of growing that will produce a satisfactory crop of Garza. It has never been known to go blind. Revelation makes possible the easy production of high quality white pompons for Christmas and early January, without loss of production or risk to the grower. With the careful application of a small amount of electric light, its flowering can be extended into early February.

Price for rooted Cuttings \$50.00 per 1000

SUNNYSIDE

(Yoder Bros.)

This variety fills the persistent demand from all wholesale growers for a round, hard flower which will ship and handle without bruising or other damages. It is a strong grower and will consistently produce a heavy crop of well-branched sprays that are easy to bunch. The quality of flower is equal to or better than any existing yellow pompon regardless of season. The color is a clear, brilliant yellow. Its season is Thanksgiving and later. It will hold well on the bench. Price for rooted Cuttings \$50.00 per 1000

New Hardy Varieties ALLEGRO

(De Petris)

A charming and beautiful variety that will be welcomed by all connoisseurs. One of the finest shrimp-pink varieties for cutting, coming into full bloom October 15th. This variety may be disbudded to produce single blossoms.

Price for rooted Cuttings \$100.00 per 1000

AVIATOR

(De Petris)

We predict that this new rich coppery red will be the most popular garden Chrysanthemum of its color. A vigorous and easy grower, coming into full bloom October 10. Price for rooted Cuttings \$100.00 per 1000

MORNING STAR

(De Petris)

A large fully double soft primrose-yellow shading to cream-yellow. Extremely early flowering, blooming from late August until killing frost. It is extremely hardy and the foliage is disease resistant.

Price for rooted Cuttings \$100.00 per 1000

MORNING GLOW

(De Petris)

A lovely early flowering lavender to mauvepink without a trace of magenta. A most desirable color.

Large Flowering Commercial Varieties

S-Indicates varieties we find most suitable for shading.

P-Indicates varieties suitable for Pot Plants.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO
NO ORDERS FOR LESS THAN 50 CUTTINGS OF A VARIETY ACCEPTED
YOUR TOTAL ORDER MUST BE FOR NOT LESS THAN 250 CUTTINGS

YELLOW

		, ,			
P SP SP SP SP P P	Sunglow. Golden yellow Citronella. Light buff yellow Saratoga. Bright golden yellow Golden Glory. Golden yellow Good News. Deep lemon yellow Yellow Turner. Light yellow Cardonia. Deep golden yellow Penrod. Golden yellow Whittier. Lemon yellow Yellow Monument. Light lemon yellow Honey Dew. Lemon yellow Reliance. Light lemon yellow Yellow Mefo. Lemon yellow Yellow Mefo. Lemon yellow Bonnaffon Deluxe. Golden yellow Friendly Rival. Deep chrome yellow Marie Depetris. Deep golden yellow Sun Gold. Lemon yellow Harvester. Deep canary yellow	Int. Semi-IncS. IncurvedL. IncurvedL. IncurvedL. IncurvedL. Semi-IncInt. Semi-IncInt. IncurvedL. Incurved	Matures Oct. 1 Oct. 10 Oct. 15 Oct. 20 Oct. 23 Oct. 25 Oct. 25 Oct. 28 Nov. 1 Nov. 1 Nov. 1 Nov. 10 Nov. 10 Nov. 10 Nov. 15 Nov. 15 Nov. 15 Nov. 20 Nov. 20 Nov. 20 Nov. 20 Nov. 21 Nov. 25 Nov. 25 Nov. 25	Price pe Unrooted \$27.50 27.50	Rooted \$37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50
•	Marie Depetris. Deep golden yellow	L. Incurved Int. Semi-Inc.	Nov. 23	27.50	37.50
S	Harvester. Deep canary yellow	Int. IncurvedL. IncurvedL. IncurvedL. IncurvedL. IncurvedInt. Semi-Inc.	_	90.00 27.50 27.50 27.50 27.50 70.00 27.50	100.00 37.50 37.50 37.50 37.50 80.00 37.50

WHITE

	Smith's Early White	Oct. 5	27.50	37.50
Р	Quaker Maid. White, tinged pinkInt. Reflexed	Oct. 15	27.50	37.50
	Silver Sheen	Oct. 18	27.50	37.50
	Christina	Oct. 20	27.50	37.50
	Ambassador. Cream whiteL. Incurved	Oct. 23	27.50	37.50
	Granite State. (See back cover)	Oct. 25	90.00	100.00
S	AlbatrossL. Incurved	Nov. 1	27.50	37.50
S	Snow White	Nov. 1	27.50	37.50
S	Betsy Ross. Ivory whiteL. Incurved	Nov. 1	27.50	37.50
	William Turner. WhiteL. Incurved	Nov. 5	27.50	37.50
SP	Indianapolis White	Nov. 8	27.50	37.50
	Monument. Ivory whiteL. Incurved	Nov. 15	27.50	37.50
SP	Marketeer	Nov. 18	27.50	37.50

BETTER MUMS FOR 1946 FROM - Grog Ball

Large Flowering Commercial Varieties (continued)

WHITE (Continued)

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December White	
Improved December BeautyL. Incui	rved Dec. 8 27.50 37.50
Margaret Moeller. White	
White Mistletoe	curved Dec. 10 27.50 37.50
P Smith's Late White. Ivory white	mi-Inc. Dec. 15 27.50 37.50
December Glory. Ivory whiteInt. Inc.	curved Dec. 15 27.50 37.50

BRONZE AND RED

S	Indianola. Light reddish bronze	Oct. 10	27.50	37.50
	Hilda Bergen. Dark reddish bronzeS. Incurved	Oct. 25	27.50	37.50
	Cambria. Golden bronze	Oct. 25	27.50	37.50
	Alameda. Reddish bronze	Oct. 25	27.50	37.50
	Glitters. Deep reddish orangeInt. Reflexed	Oct. 28	27.50	37.50
	Ivanhoe. Reddish bronze	Nov. 1	90.00	100.00
SP	Apricot Queen. Orange bronze	Nov. 1	27.50	37.50
	Detroit News. Reddish bronze	Nov. 1	27.50	37.50
	Indianapolis Bronze. Buff bronzeInt. Incurved	Nov. 8	27.50	37.50
	Bronze Orchid Queen. Apricot buffL. Incurved	Nov. 10	27.50	37.50
S	Anaconda. Deep coppery redInt. Incurved	Nov. 15	40.00	50.00
	Mrs. David F. Roy. CrimsonInt. Incurved	Nov. 15	27.50	37.50
	Mrs. A. J. Stahelin. Reddish bronzeInt. Incurved	Nov. 15	27.50	37.50
	Garnet King. Dark redInt. Reflexed	Nov. 18	27.50	37.50
	Gladys Pearson. Light buff bronzeInt. Incurved	Nov. 25	27.50	37.50
	Oak Leaf. Reddish bronzeInt. Incurved	Nov. 25	27.50	37.50
P		Nov. 25	27.50	37.50
P	Harvard. Deep redInt. Reflexed	Nov. 30	27.50	37.50
	Mohawk Chief. Deep redInt. Reflexed	Nov. 30	27.50	37.50
	Bronze Mistletoe. Buff bronzeInt. Incurved	Dec. 10	27.50	37.50

PINK

	Early October. Light lavenderS. Semi-Inc.	Oct. 10	70.00	80.00
S	Pink Chief. LavenderInt. Incurved	Oct. 15	27.50	37.50
	Justrite. Light rose pinkS. Incurved	Oct. 15	27.50	37.50
P	Major Ed. Bowes, Deep lavender	Oct. 20	27.50	37.50
	October Rose. Light lavenderInt. Incurved	Oct. 20	27.50	37.50
Р	Rose Chochard. Light lavenderS. Incurved	Oct. 20	27.50	37.50
P		Oct. 25	27.50	37.50
	Rosy Morn. Deep rich pinkInt. Incurved	Oct. 25	70.00	80.00
	Pink Turner. LavenderL. Incurved	Nov. 5	27.50	37.50
SP	J. W. Prince. Rose pinkInt. Incurved	Nov. 5	27.50	37.50
SP	Indianapolis Pink. Deep lavenderInt. Incurved	Nov. 8	27.50	37.50
S	Orchid Queen. Orchid pinkL. Incurved	Nov. 10	27.50	37.50
	Aristocrat. Deep orchid pink	Nov. 20	70.00	80.00
P	Thanksgiving Pink. AmaranthInt. Reflexed	Nov. 23	27.50	37.50
P	Peter John. Deep rose pinkInt. Reflexed	Nov. 23	27.50	37.50
	Helen Frick. Rose pinkInt. Incurved	Nov. 25	27.50	37.50
	Edwin Seidewitz. LavenderInt. Incurved	Nov. 30	27.50	37.50
	Pink Mistletoe. Lavender	Dec. 10	27.50	37.50

Pompons, Single and Anemone Varieties

Types are abbreviated as follows: Pom.—Pompon; Dec.—Decorative; Sgl.—Single; Anem.—Anemone.
Size of flower is indicated by S.—Small; Int.—Intermediate; L.—Large.

S-Indicates varieties we find most suitable for shading.

P-Indicates varieties suitable for Pot Plants.

D-Indicates varieties most suitable for growing as disbudded pompons.

H—Hardy or garden types.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO NO ORDERS FOR LESS THAN 50 CUTTINGS OF A VARIETY ACCEPTED YOUR TOTAL ORDER MUST BE FOR NOT LESS THAN 250 CUTTINGS

YELLOW

PH H H H PH H	Barbara Cumming. Buff yellow	Sept. 15 Sept. 20 Sept. 20 Sept. 25 Sept. 30 Oct. 15 Oct. 15 Oct. 18	\$27.50 27.50 90.00 27.50 27.50 27.50 90.00 27.50	\$37.50 37.50 100.00 37.50 37.50 37.50 37.50 100.00 37.50
SPH	Rodell Improved. Light lemon yellowShort, Int. Pom.	Oct. 20	27.50	37.50
S	Yellow Hammer. Golden yellowMed., Int. Pom.	Oct. 20	27.50	37.50
	Cincinnati. Golden yellow L. Pom.	Oct. 20	27.50	,37.50
	Golden Spray. Deep lemon yellowMed., Int. Pom.	Oct. 23	27.50	37.50
SPD	Golden Herald. Deep golden yellowMed., L. Dec.	Oct. 25	27.50	37.50
S	Yellow Dot. Yellow, bronze centerMed., Int. Pom.	Oct. 25	27.50	37.50
S	Yellow Arcadia. Pernet yellowMed., Int. Pom.	Oct. 28	27.50	37.50
S	Yellow Daisy. Deep lemon yellowMed., Int. Sgl.	Nov. 1	27.50	37.50
SD	Mary Lennon Hall. Lemon yellowTall, Int. Pom.	Nov. 1	27.50	37.50
D	Yellow Sea Gull. Light lemon yellowTall, Int. Pom.	Nov. 1	27.50	37.50
D	Yellow Doty. Buff yellow	Nov. 1	27.50	37.50
	Barcarole. Golden yellow Int. Pom.	Nov. 5	90.00	100.00
SP	Nuggets. Light lemon yellowShort, S. Pom.	Nov. 5	27.50	37.50
S	Yellow Bushnell. Pernet yellowTall, Int. Pom.	Nov. 8	27.50	37.50
	Pixie. Deep golden yellow	Nov. 10	40.00	50.00
	Derigold. Deep golden yellowMed., Int. Pom.	Nov. 10	27.50	37.50
	Yellow Beauty. Golden yellow L. Pom.	Nov. 10	27.50	37.50
	Helios. Deep golden yellow	Nov. 10	27.50	37.50
S	Yellow New York. Deep lemon yellowMed., S. Pom.	Nov. 13	27.50	37.50
	Cocquette. Clear golden yellow S. Pom.	Nov. 15	70.00	80.00
	Princeton. Orange yellow	Nov. 15	27.50	37.50
SPD	Yellow Fellow. Deep lemon yellowMed., Int. Dec.	Nov. 15	27.50	37.50
P	Sunray. Light lemon yellowMed., Int. Anem.	Nov. 15	27.50	37.50
SD	Susane Miller. Buff yellowTall, L. Anem.	Nov. 18	27.50	37.50
	Golden Surprise. Sulphur yellow	Nov. 18	40.00	50.00
	Golden Emblem. Golden yellow Int. Pom.	Nov. 20	90.00	100.00
	Hasegawa Gold. Light golden yellowMed., Int. Pom.	Nov. 23	27.50	37.50
PD	Yellow Rolinda. Light buff yellow	Nov. 23	27.50	37.50
	Sunnyside. Golden yellow	Nov. 25	40.00	50.00
_/	Lodestar. Golden yellow	Nov. 25	70.00	80.00
	Goldsmith. Golden yellow	Nov. 25	27.50	37.50
D	Citrus Queen. Lemon orange	Nov. 25	27.50	37.50
	Christmas Gold. Deep golden yellow Med., S. Pom.	Nov. 28	27.50	37.50
D	Golden Jane. Brilliant golden yellowMed., L. Sgl.	Nov. 28	40.00	50.00
	Yellow Cordova. Lemon yellow	Nov. 30	27.50	37.50
D	Gold Coin. Deep lemon yellow	Dec. 1	27.50	37.50
	Golden Modena. Deep lemon yellowMed., Int. Pom.	Dec. 5	27.50	37.50
	Yellow Cameo. Deep lemon yellow Int. Pom.	Dec. 5	90.00	100.00

BETTER MUMS FOR 1946 FROM — Group Ball

Pompons, Single and Anemone Varieties (continued)

YELLOW (Continued)

D	Yellow Supreme. Buff yellow	Med., Int. Dec. Med., Int. Dec. Med., Int. Pom. hort, Int. Anem. Med., Int. Dec. Med., Int. Pom. Med., Int. Pom. Int. Pom.	Dec. 10 Dec. 15 Dec. 15 Dec. 15 Dec. 15 Dec. 20 Dec. 25 Dec. 30 Dec. 30	27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 70.00	37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50
H H SPH S S S S S S S S S S S S S S S S	Silver Moon. Cream white	Med., Int. Sgl. hort, Int. Dec. Med., Int. Dec. Med., Int. Dec. Med., Int. Pom. hort, S. Pom. Med., L. Pom. Med., S. Pom. Med., Int. Pom. Med., Int. Anem. Med., Int. Pom. Med., Int. P	Sept. 15 Sept. 20 Sept. 20 Oct. 5 Oct. 10 Oct. 15 Oct. 15 Oct. 28 Oct. 28 Oct. 28 Oct. 28 Oct. 28 Nov. 1 Nov. 5 Nov. 5 Nov. 8 Nov. 8 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 10 Nov. 15 Nov. 15 Nov. 15 Nov. 15 Nov. 20 Nov. 21 Dec. 10 Dec. 10 Dec. 15 Dec. 30	27.50 27.50	37.50 37.50
	Revelation BRONZE A	Med., Int. Pom.	Dec. 30	40.00	50.00
PH	Early Bronze. Orange bronze	Aed., Int. Dec. Int. Pom.	Sept. 15 Oct. 5 Oct. 5	27.50 27.50 70.00	37.50 37.50 80.00

Pompons, Single and Anemone Varieties (continued)

BRONZE AND RED (Continued)

н	Caliph. Deep red	Oct. 8	27.50	37.50
	Red Velvet. Velvety crimson Int. Dec.	Oct. 8	70.00	80.00
Н	Ruth Cumming. Reddish bronzeMed., Int. Dec.	Oct. 8	27.50	37.50
Н	Mandarin. Coral salmonMed., Int. Dec.	Oct. 10	27.50	37.50
Н	Aviator. Coppery red	Oct. 10	90.00	100.00
	Indian Summer. Orange bronzeMed., Int. Dec.	Oct. 15	27.50	37.50
	Clara Jameson. Dark reddish bronzeMed., S. Pom.	Oct. 15	27.50	37.50
	Roman BronzeTall, Int. Pom.	Oct. 20	27.50	37.50
	Thorina. Reddish bronze Int.Pom.	Oct. 20	27.50	37.50
	Adelaide. Dark reddish bronze	Oct. 23	27.50 27.50	37.50 37.50
H 2D	Jemima. Dark reddish bronze	Oct. 23 Oct. 25	27.50	37.50 37.50
	Natoma. Flame scarletShort, Int. Dec. Fire Bird. Dark reddish bronzeMed., Int. Dec.	Oct. 25	27.50	37.50 37.50
3	October Bronze. Light bronze	Oct. 28	27.50	37.50
	Bronze Daisy. Light bronze	Nov. 1	27.50	37.50
	Elizabeth Peterson. Light orange bronzeMed., Int. Dec.	Nov. 3	27.50	37.50
Р	Bronze Buckingham. Light orange bronzeShort, Int. Sgl.	Nov. 3	27.50	37.50
S	Robin Hood. Dark redMed., S. Pom.	Nov. 5	27.50	37.50
	Navaho. Deep crimsonMed., Int. Pom.	Nov. 5	40.00	50.00
S	Red Daisy. Deep redMed., Int. Sgl.	Nov. 5	27.50	37.50
	Bittersweet. Bittersweet red Int. Sgl.	Nov. 8	90.00	100.00
	Bronze BulkeleyTall, Int. Pom.	Nov. 8	27.50	37.50
	Cassandra. Orange bronze	Nov. 10	40.00	50.00
D	Mason's Bronze. Burnt orangeShort, L. Sgl.	Nov. 10	27.50	37.50
	Mason's Red. Crimson orange L. Sgl.	Nov. 10	27.50	37.50
CD	Sylvanna. Orange bronze	Nov. 10	70.00	80.00
	Europa. Cardinal redShort, L. Sgl.	Nov. 10	27.50 27.50	37.50
	Clara Holford. Deep red	Nov. 10 Nov. 10	27.50 27.50	37.50 37.50
	Melba. Light reddish bronzeShort, L. Sgl.	Nov. 10	27.50	37.50 37.50
	Red Melba. Light redShort, L. Sgl.	Nov. 10	27.50	37.50
	Trianon. Crimson bronze	Nov. 13	70.00	80.00
S	New York. Reddish bronzeMed., S. Pom.	Nov. 13	27.50	37.50
SD	Bronze Masterpiece. Rosewood bronzeMed., Int. Pom.	Nov. 15	27.50	37.50
	Fez. Deep reddish bronze	Nov. 15	27.50	37.50
	Red Princeton. Brazil red	Nov. 15	27.50	37.50
	Mrs. Mary Hooker. Deep redTall, L. Dec.	Nov. 15	27.50	37.50
	Gold Imperial. Golden yellowTall, Int. Dec.	Nov. 15	40.00	50.00
SD	Bronze Freida. Salmon buffMed., L. Anem.	Nov. 15	27.50	37.50
P	Gypsy. Light reddish bronze S. Anem.	Nov. 15	27.50	37.50
	Rusticon. Rust red Int. Pom.	Nov. 20	90.00	100.00
	Catherine. Light reddish bronzeMed., Int. Dec.	Nov. 20	27.50	37.50
20	Legal Tender. Bronze and gold	Nov. 20	27.50	37.50
	Red Rolinda. Deep reddish bronzeMed., Int. Anem.	Nov. 23 Nov. 25	27.50 70.00	37.50 80.00
U	Apricon. Apricot yellow	Nov. 25	27.50	37.50
	Dorothy Turner. Deep reddish bronzeMed., Int. Pom.	Nov. 25	27.50	37.50
	Yolanda. Light orange bronze	Nov. 25	27.50	37.50
PD	Crimson Glow. Crimson maroonMed., Int. Anem.	Nov. 25	27.50	37.50
	Argo. Orange bronzeShort, Int. Pom.	Nov. 28	70.00	80.00
D	Jane. Light buff bronze	Nov. 28	27.50	37.50
	Red Valencia. Light Brazil redMed., L. Sgl.	Nov. 28	27.50	37.50
D	Apricot Valencia	Nov. 28	40.00	50.00
	Glow. Orange, reddish orange centerMed., Int. Pom.	Nov. 30	27.50	37.50
PD	Carnelia. Bittersweet redShort, L. Sgl.	Nov. 30	27.50	37.50
	Crimson Carnelia. Deep crimson L. Sgl.	Nov. 30	70.00	80.00
	Royal Crimson. Dark crimson	Dec. 1	27.50	37.50
	Viking. Deep reddish bronzeMed., Int. Sgl.	Dec. 1	27.50	37.50
	Mahogany Viking. Mahogany bronze Int. Sgl.	Dec. 1	70.00	80.00
	Chrome Emerald. Golden orangeShort, Int. Anem.	Dec. 1	27.50	37.50
	Wildfire. Orange rust	Dec. 3	27.50	37.50

BETTER MUMS FOR 1946 FROM — Grog Ball

Pompons, Single and Anemone Varieties (continued)

BRONZE AND RED (Continued)

	Cavalcade. Mandarin redMed., Int. Pom.	Dec. 10	27.50	37.50
PD	Bronze Supreme. Light bronzeMed., L. Anem.	Dec. 10	27.50	37.50
	Sarong. Crimson scarlet	Dec. 15	27.50	37.50
	barong. Crimson scarlet minimum and an area of the			
£				
,	DINIV			
,	PINK			
	m s sas s 1 1 1 Adad lot Dag	C+ 15	27.50	37.50
	Early Wonder. Lavender	Sept. 15	90.00	100.00
	Morning Glow. Mauve pink S. Dec.	Sept. 25		37.50
	Jean Treadway. Light rose pinkMed., Int. Dec.	Oct. 1	27.50	
	Mrs. Dupont. Peach pink	Oct. 5	50.00	60.00
Н	, , ,	Oct. 5	27.50	37.50
	Lavender Lady. Lavender	Oct. 8	50.00	60.00
	Symphony. Mauve pink and lavenderMed., Int. Dec.	Oct. 12	27.50	37.50
	Jewell. Lavender	Oct. 15	27.50	37.50
	Dark Pink Jewell. Deep lavenderMed., S. Pom.	Oct. 15	27.50	37.50
	Pink Pearl. Rose pink	Oct. 20	27.50	37.50
	Capt. Cook. Deep rose pinkTall, Int. Pom.	Oct. 23	27.50	37.50
	Jessie. (Madeline), Light lavenderMed., Int. Pom.	Oct. 25	27.50	37.50
	Pink Dot. Light pinkMed., Int. Pom.	Oct. 25	27.50	37.50
	October Pink. Light lavenderMed., Int. Sgl.	Oct. 28	27.50	37.50
	Lillian Doty. Light rose pink	Nov. 1	27.50	37.50
	Rose Charm. Lavender	Nov. 1	27.50	37.50
	W. H. Buckingham. Rose pinkShort, Int. Sgl.	Nov. 3	27.50	37 .50
S	Mrs. Morgan G. Bulkeley. Light roseTall, Int. Pom.	Nov. 8	27.50	37.50
D	Dark Pink Freida. Deep lavenderMed., L. Anem.	Nov. 8	27.50	37.50
	Linda Lou. Lavender yellow cushionMed., Int. Anem.	Nov. 8	27.50	37.50
SPD	Thyra. Lavender	Nov. 10	27.50	37.50
SPD	Queen of Pinks. Lavender L. Pom.	Nov. 10	27.50	37.50
SPD	Ethrelda. Light lavender Int. Anem.	Nov. 12	27.50	37.50
	Dark Pink Bulkeley. Dark rose pinkTall, Int. Pom.	Nov. 15	27.50	37.50
SD	Masterpiece. Tourmaline pinkMed., Int. Pom.	Nov. 15	27.50	37.50
P	Orchid Beauty. Orchid, golden cushionMed., Int. Anem.	Nov. 15	27.50	37.50
SPD	Freida. Light lavender, yellow cushionMed., L. Anem.	Nov. 15	27.50	37.50
SD	Norma. Pink petals, salmon cushionTall, L. Anem.	Nov. 18	27.50	37.50
SD	Dark Pink Norma. Deep lavenderTall, L. Anem.	Nov. 18	27.50	37.50
	Minuet. Mauve to rose pinkMed., Int. Pom.	Nov. 25	70.00	80.00
	Usona. LavenderMed., Int. Pom.	Nov. 25	27.50	37.50
	Hasegawa Pink. LavenderMed., Int. Sgl.	Nov. 25	27.50	37.50
PD	Beautiful Lady. Deep lavenderShort, L. Anem.	Nov. 25	27.50	37.50
D	Valencia. Orchid pinkTall, L. Sgl.	Nov. 28	27.50	37.50
D	Dark Pink Valencia. Orchid pinkTall, Int. Sgl.	Nov. 28	27.50	37.50
D		Dec. 5	27.50	37.50
	Riviera. Luminous pink Int. Dec.	Dec. 10	40.00	50.00
	December December	D 10	25.50	22.00

Dec. 10

Dec. 10

Dec. 15

Dec. 20

Dec. 20

27.50

27.50

27.50

27.50

27.50

37.50

37.50

37.50

37.50

37.50

D Dark Pink Supreme. Lavender......Med., L. Anem.

Carillon. Deep orchid pink......Med., Int. Sgl.

Pink Treasure Island. Light lavender......Med., Int. Dec.

Rosalind. Rose pinkTall, Int. Sgl.

BETTER MUMS FOR 1946 FROM - Grog Ball

Pot Plant Varieties

PLEASE NOTE SYMBOLS USED FOR THIS CLASS

The varieties listed below include those of all types which have been found most suitable for pot culture. Types are indicated by Sgl.—Single; Anem.—Anemone; Dec.—Decorative; Pom.—Pompon; Inc.—Incurved. Size of flower is indicated by S—Small; Int. Intermediate; L.—Large; and L.F.—Large Flower commercial.

S—Indicates varieties we find most suitable for shading.

NOTE CAREFULLY INSTRUCTIONS FOR ORDERING ON PAGE TWO NO ORDERS FOR LESS THAN 50 CUTTINGS OF A VARIETY ACCEPTED YOUR TOTAL ORDER MUST BE FOR NOT LESS THAN 250 CUTTINGS

Large Flowering Commercial Varieties YELLOW

	Name and Description	Size & Type	Matures	Price pe Unrooted	r 1000 Rooted
S S S	Gold Lode. Light golden yellow	S. Incurved L. Incurved L. Incurved Int. Incurved Int. Semi-Inc. Int. Incurved Incurved Incurved Incurved Incurved Incurved Int. Semi-Inc.	Oct. 1 Oct. 15 Oct. 20 Oct. 25 Oct. 25 Nov. 1 Nov. 10 Nov. 10 Nov. 15 Nov. 20 Nov. 20 Nov. 25	\$27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50	\$37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50
S	Quaker Maid. White, tinged pink	S. IncurvedL. IncurvedInt. IncurvedInt. Semi-IncInt. Incurved	Oct. 5 Oct. 20 Oct. 23 Oct. 25 Nov. 8 Nov. 18 Nov. 25 Dec. 15	27.50 27.50 27.50 90.00 27.50 27.50 27.50	37.50 37.50 37.50 100.00 37.50 37.50 37.50
S	Alameda. Reddish bronze Glitters. Deep reddish orange	Int. ReflexedInt. IncurvedInt. IncurvedInt. IncurvedInt. ReflexedInt. Incurved	Oct. 25 Oct. 28 Nov. 1 Nov. 8 Nov. 15 Nov. 18 Nov. 25 Nov. 30	27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50	37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50
S	Early October. Light lavender Justrite. Light rose pink. Major Ed. Bowes. Deep lavender. Rose Chochard. Light lavender. Rosabella. Rose pink J. W. Prince. Rose pink. Indianapolis Pink. Deep lavender Thanksgiving Pink. Amaranth Peter John. Deep rose pink. Helen Frick. Rose pink	S. Semi-IncS. IncurvedInt. IncurvedS. IncurvedS. IncurvedInt. IncurvedInt. ReflexedInt. Reflexed	Oct. 10 Oct. 15 Oct. 20 Oct. 20 Oct. 25 Nov. 5 Nov. 8 Nov. 23 Nov. 23	70.00 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50	80.00 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50

BETTER MUMS FOR 1946 FROM — Groß Ball

Pot Plant Varieties (continued)

Pompons, Single and Anemone Varieties

YELLOW

	TELLOW			
\$ \$ \$ \$	Nuggets. Light lemon yellow	Sept. 15 Oct. 15 Oct. 20 Oct. 20 Oct. 25 Nov. 5 Nov. 10 Nov. 15 Nov. 15 Nov. 15	27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50	37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50
	WHITE			
s s	White Jewell	Oct. 15 Oct. 18 Oct. 28 Nov. 10 Nov. 10 Nov. 18 Nov. 28	27.50 27.50 27.50 27.50 27.50 27.50 27.50	37.50 37.50 37.50 37.50 37.50 37.50
	BRONZE AND RED			
	Early Bronze.Orange bronzeS. Pom.Thorina.Reddish bronzeInt. Pom.Bronze Buckingham.Light orange bronzeInt. Sgl.Melba.Light reddish bronzeL. Sgl.Red Melba.Light redL. Sgl.Gypsy.Light reddish bronzeS. Anem.Red Rolinda.Deep reddish bronzeInt. Anem.Crimson Glow.Crimson maroonInt. Anem.Carnelia.Bittersweet redL. Sgl.Bronze Supreme.Dark bronzeL. Anem.	Sept. 15 Oct. 20 Nov. 3 Nov. 10 Nov. 10 Nov. 15 Nov. 23 Nov. 25 Nov. 30 Dec. 10	27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50 27.50	37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50 37.50
	PINK			•
S	Dark Pink Jewell. Deep lavender	Oct. 15 Nov. 3 Nov. 10 Nov. 10 Nov. 12 Nov. 15	27.50 27.50 27.50 27.50 27.50 27.50	37.50 37.50 37.50 37.50 37.50 37.50

Nov. 15

Nov. 25

27.50

27.50

37.50

37.50

S Freida. Light lavender, yellow cushion......L. Anem.

Beautiful Lady. Deep lavender.....L. Anem.

FLOWERING SCHEDULE

FOR MUMS BOTH SHADED AND NORMAL

We can recommend the following varieties of Mums as responding particularly well to shading. If shading is started in June flowers can be cut from the last of August on through the season.

We give below the date to start shading and the varieties in the various colors that respond best to this treatment.

...... Items marked like this bloom at dates given without shading.

STANDARDS—YELLOW

Variety	Pinch Date	_	Shadi Dat		Flowerin Date	ıg
Blazing Gold Blazing Gold Good News Blazing Gold Good News Penrod Blazing Gold	May May	10 17 14 24 21 17 31	June June July June June June July	19 26 23 3 30 26	August August August September September September	2 2
Good News Penrod Blazing Gold Good News Penrod Yellow Mefo Good News Penrod	May June June May	28 24 7 4 31 23 11	July July July July July July July July	7 3 17 14 10 2 21	September September September September September September September	9 16 16 16 16 23
Yellow Mefo Marie Depetris Good News Penrod Yellow Mefo Marie Depetris Kidder Blazing Gold	May June June June June June June June	30 26 18 14 6 2 25 21 13 9 2 28 20 16 12	July July July July July Aug. July July Aug. Aug. July July Aug.		September September September September September October October October October October October October October October October October October October October	23 30 30 30
Sunglow Citronella Good News Penrod Yellow Monument Yellow Mefo Friendly Rival Marie Depetris Harvester Golden Pearson Imp. Golden Chattanooga Golden Mrs. Ross Meteore Imp. Tobin's Late Yellow	July July July July July July July July	12 16 16 19 22 25 25 25 28 28 28 31			October October November November November November November November November December December December	10 15 20 20 23 25 25

BETTER MUMS FOR 1946 FROM - Groge

STANDARDS-WHITE

Variety	Pinching Date		Shading Date	Flowering Date	
Silver Sheen Silver Sheen Albatross Betsy Ross Silver Sheen Albatross Betsy Ross Indianapolis White Silver Sheen Albatross	May May May May May May	10 17 14 14 24 21 21 17 31 28	June 19 June 26 June 23 June 23 July 3 June 30 June 30 June 26 July 10 July 7	August 26 August 26 August 26 August 26 September 2 September 2 September 2 September 2 September 9 September 9	
Betsy Ross Indianapolis White Monument Silver Sheen Albatross Betsy Ross Indianapolis White Monument Mefo Albatross Betsy Ross Indianapolis White Monument Mefo Albatross Indianapolis White Monument Mefo Albatross Indianapolis White	May May June June May May June June June June May June	28 24 20 7 4 31 27 23 11 11 7 3 30 18	July 7 July 3 June 29 July 17 July 14 July 10 July 6 July 2 July 21 July 21 July 17 July 13 July 9 July 28 July 24	September 9 September 9 September 16 September 16 September 16 September 16 September 16 September 16 September 23 September 23 September 23 September 23 September 23 September 30 September 30 September 30	
Monument Mefo Albatross Indianapolis White Monument Mefo Albatross Indianapolis White Monument Mefo Silver Sheen Albatross Snow White Betsy Ross Indianapolis White	June June June June June June June July July July July	10 6 25 21 17 13 2 28 24 20 12 16 16 16	July 20 July 16 Aug. 4 July 31 July 27 July 23 Aug. 11 Aug. 7 Aug. 3 July 30	September 30 September 30 October 7 October 7 October 7 October 7 October 14 October 16 November 1 November 1 November 1	
Monument Marketeer Mefo Chattanooga December Glory Large Margaret Moeller White Mistletoe Smith's Late White	July July July July July Aug.	22 25 25 28 31 31 2		November 15 November 20 November 25 December 1 December 8 December 10 December 15	
BRO	NZE				
Hilda Bergen Hilda Bergen Ivanhoe Detroit News Hilda Bergen Ivanhoe Detroit News Ind. Bronze	May May May May May May	10 17 14 14 24 21 21	June 19 June 26 June 23 June 23 July 3 June 30 June 30 June 26	August 19 August 26 August 26 August 26 September 2 September 2 September 2 September 2 September 2	

BETTER MUMS FOR 1946 FROM - Gro. J.B.

STANDARDS—BRONZE (Continued)

Variety	Pinching Date		Shading Date	Flowering Date
Hilda Bergen Ivanhoe Detroit News Ind. Bronze	May	31 28 28 24	July 10 July 7 July 7 July 3	September 9 September 9 September 9 September 9
Anaconda		20 20	June 29 June 29	September 9 September 9
Hilda Bergen Ivanhoe Detroit News Ind. Bronze Anaconda Mrs. Roy Ivanhoe Detroit News Ind. Bronze Anaconda Mrs. Roy Detroit News	June June May May June June June June June	7 4 31 27 27 11 11 7 3 3	July 17 July 14 July 10 July 6 July 6 July 21 July 21 July 17 July 13 July 13 July 28	September 16 September 16 September 16 September 16 September 16 September 23 September 30
Ind. Bronze Anaconda Mrs. Roy Detroit News Ind. Bronze Anaconda Mrs. Roy Detroit News Ind. Bronze Anaconda Mrs. Roy Detroit News Ind. Bronze Anaconda Mrs. Roy	July June June	14 10 10 25 21 17 17 2 28 24 24	July 24 July 20 July 20 Aug. 4 July 31 July 27 July 27 Aug. 11 Aug. 7 Aug. 3 Aug. 3	September 30 September 30 September 30 October 7 October 7 October 7 October 7 October 14 October 14 October 14
Detroit News Ind. Bronze Anaconda Mrs. Roy Hilda Bergen Ivanhoe Detroit News Ind. Bronze Br. Orchid Queen Anaconda Mrs. Roy Gladys Pearson Oak Leaf	July July July July July July July July	9 5 1 12 16 16 19 19 22 22 28 28	Aug. 18 Aug. 14 Aug. 10 Aug. 10	October 21 October 21 October 21 October 25 November 1 November 1 November 10 November 15 November 15 November 25 November 25 November 25 November 25
PI	NK			
Pink Chief Pink Chief Oct. Rose Major Bowes J. W. Prince Pink Chief Oct. Rose Major Bowes J. W. Prince Ind. Pink Oct. Rose Major Bowes J. W. Prince Ind. Pink Oct. Rose Major Bowes J. W. Prince Ind. Pink Oct. Rose Major Bowes J. W. Prince Ind. Pink Oct. Rose Major Bowes	May May May May May May May May May May	13 20 17 17 14 27 24 21 17 31 31 28 24 7	June 22 June 29 June 26 June 23 July 14 July 3 July 3 June 30 June 26 July 10 July 10 July 7 July 3 July 3 July 17 July 17	August 26 August 26 August 26 August 26 August 26 September 2 September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 16

BETTER MUMS FOR 1946 FROM — Groß Ball

STANDARDS—PINK (Continued)

Variaty	Pinching Date				Flowering Date	į
Variety J. W. Prince Ind. Pink Orchid Queen	June May	4 31 31	July July July	14 10 10	September 1 September 1 September 1	16
J. W. Prince Ind. Pink Orchid Queen		14 11 7 7 26 21 17 14 14 2 28 24 21 21	July July July July July July July July	24 21 17 17 5 31 27 24 24 12 7 3		23 23 23 23 23 30
Edwin Seidewitz October Rose J. W. Prince Ind. Pink	July	9 4 1 28	July Aug. Aug. Aug.	19 14 10 7	October 1	7 14 14
Orchid Queen Edwin Seidewitz Pink Chief Oct. Rose Major Bowes J. W. Prince Ind. Pink Orchid Queen Thanks. Pink Helen Frick Edwin Seidewitz	June July July July July July July July July	28 16 8 12 12 16 19 19 25 28	Aug. July		October October October October November November November November November	14 14 15 20 20 1 8 10 23 25

POMS—SINGLES AND ANEMONES

YELLOW

Yellow Irene Yellow Irene Golden Spray Yellow Dot Yellow Irene Golden Spray Yellow Dot Golden Herald Yellow Daisy Yellow Arcadia	May May May May May May May	6 13 10 10 20 17 17 14 14	June June June June June June June June	15 22 19 19 29 26 26 23 23	August	12 19 19 26 26 26 26 26 26
Yellow Dot Golden Herald Yellow Daisy Yellow Arcadia Barcarole Nuggets Yellow Bushnell Pixie	May May May May May May	24 21 21 21 17 17	July June June June June June June June June	3 30 30 30 26 26 26 26	September September September September September September September September	2 2 2 2 2 2 2 2 2 2 2
Yellow Dot Golden Herald Yellow Daisy		31 28 28	July July July	10 7 7	September September September	9 9

BETTER MUMS FOR 1946 FROM - Grog Ball

POMS—SINGLES AND ANEMONES—YELLOW (Continued)

N	Pinch		Shad	ling	Floweri	ng
Variety	Dat		Da	te	Date	
Yellow Arcadia Barcarole Nuggets	May May	28 24 24	July July July	3 3 3	September September September	. 9
Yellow Bushnell Pixie Yellow Fellow Golden Herald	May May June	24 24 20 4	July July June July	3 3 29 14	September September September September	9 16
Yellow Arcadia	June	4	July July	14	September September	16
Barcarole Nuggets Yellow Bushnell Pixie Yellow Fellow	May .May Mav	31 31 31 31 27	July July July July July	10 10 10 10 6	September September September September September	16 16 16
Golden Surprise Princeton Golden Herald Yellow Daisy Yellow Arcadia	May May June June	23 23 11 11	July July July July July	6 2 21 21 21	September September September September September	16 23 23
Barcarole Nuggets Yellow Bushnell Pixie Yellow Fellow	June June June June June June	7 7 7 7 3	July July July July July	17 17 17 17 13	September September September September September	23 23 23 23 23
Yellow Bushnell	May June June June June June	30 14 14 14 14 14 10 6	July July July July July July July July	9 24 24 24 24 24 20	September September September September September September September	23 23 30 30 30 30
Princeton Goldsmith Lodestar	June June	6 2 2 2	July July July July	16 12 12 ·	September September September September	30 30 30
Barcarole Nuggets Yellow Bushnell Pixie Yellow Fellow Golden Surprise Princeton Goldsmith	June June June June June June June June	21 21 21 21 21 17 13 13	July July July July July July July July	31 31 31 31 27 23 23 19	October	7 7 7 7 7 7
Barcarole Nuggets Yellow Bushnell Pixie Yellow Fellow Golden Surprise Princeton Goldsmith	June June June June June June June June	9 28 28 28 28 24 20 20 16 16 16	July Aug. Aug. Aug. July July July July July July July	19 7 7 7 7 31 30 30 26 26 26	October October October October October October October October October October October	7 14 14 14 14 14 14 14 14 14
		8 8 12 12	••••••	•••	October October October October	20 20 23 25

BETTER MUMS FOR 1946 FROM — Gro. G. Ball

POMS—SINGLES AND ANEMONES—YELLOW (Continued)

Variation	Pinc	_	Shading Date	Flowering Date
Variety Valley, Dat	Da			October 25
Yellow Dot Yellow Arcadia		12 16	• • • • • • • • • • • • • • • • • • • •	October 28
Yellow Sea Gull	. July	16	••••••	November 1
Yellow Daisy		16	• • • • • • • • • •	November 1
Mary L. Hall	. July	16		November 1
Barcarole	. July	19	•••••	November 5
Nuggets		19		November 5
Yellow Bushnell	. July	19	• • • • • • • • • • • • •	November 8
Pixie	,	19		November 10
Princeton		22		November 15
Yellow Fellow		22	* * * * * * * * * * * * * * * * * * * *	November 15 November 18
Susanne Miller		25 25	••••••	November 18
Golden Emblem		25	******	November 23
Goldsmith		28	* * * * * * * * * * * * * * * *	November 25
Sunnyside	. July	28	* * * * * * * * * * * * * * * * * * * *	November 25
Lodestar	. July	28		November 25
Golden Jane	. Julý	28	* * * * * * * * * * * * *	November 28
Yellow Cordova		28	• • • • • • • • • • •	November 30
Yellow Cameo		31	* * * * * * * * * * * * * * *	December 5
December Gold		2 2	* * * * * * * * * * * * * * * * *	December 15
Yellow Garza		4	•••••••	December 15 December 20
Yellow Snow		10	•••••••	December 30
		_		
WH	HITE			
Irene		6	June 15	August 12
White Jewell	-	6	June 15	August 12
Irene		13	June 22	August 19
White Jewell		13	June 22	August 19
Pinocchio	May	10 10	June 19	August 19
_			June 19	August 19
Irene		20	June 29	August 26
White Jewell	May May	20 17	June 29	August 26
Minong		17	June 26 June 26	August 26 August 26
Arcadia		14	June 23	August 26 August 26
Irene	•	27		
White Jewell	May	27	July 6 July 6	September 2 September 2
Pinocchio	May	24	July 3	September 2
Minong	May	24	July 3	September 2
Arcadia	May	21	June 30	September 2
Sea Gull	May	17	June 26	September 2
Rev. Bushnell	•	17	June 26	September 2
White levell	June	3	July 13	September 9
White Jewell Pinocchio	June	3	July 13	September 9
Minong	May	31 31	July 10	September 9
Arcadia		28	July 10 July 7	September 9 September 9
Sea Gull	May	24	July 3	September 9 September 9
Rev. Bushnell	May	24	July 3	September 9
Vesper	,	20	June 29	September 9
Little America	May	20	June 29	September 9
Pinocchio		7	July 17	September 16
Minong	June	7	July 17	September 16
Arcardia Sea Gull		4	July 14	September 16
Rev. Bushnell		31	July 10	September 16
Vesper	May May	31 27	July 10	September 16
Little America	May	27	July 6 July 6	September 16
	y	'	July 6	September 16

BETTER MUMS FOR 1946 FROM — Grog Bal

POMS—SINGLES AND ANEMONES—WHITE (Continued)

Variety		IES— ing e	—WHIIE Shading Date	(Continued) Flowering Date		
Matchless Priscilla Nevada		23 23 23	July 2 July 2 July 2	September 16		
Pinocchio Arcadia Sea Gull Rev. Bushnell Vesper Little America Matchless Priscilla Nevada Seafoam	June June June June June May May May	14 11 7 7 3 3 30 30 30 26	July 24 July 21 July 17 July 13 July 13 July 9 July 9 July 9 July 5	September 23		
Pinocchio Arcadia Sea Gull Rev. Bushnell Vesper Little America Matchless Priscilla Nevada Seafoam	June June June June June June June June	21 18 14 14 10 10 6 6 6	July 31 July 28 July 24 July 20 July 20 July 16 July 16 July 16 July 16 July 12	September 30		
Pinocchio Arcadia Sea Gull Rev. Bushnell Vesper Little America Matchless Priscilla Nevada Seafoam	June June June June June June June June	28 25 21 21 17 17 13 13	Aug. 7 Aug. 4 July 31 July 27 July 27 July 23 July 23 July 23 July 19	October 7		
Pinocchio Arcadia Sea Gull Rev. Bushnell Vesper Little America Matchless Priscilla Nevada Seafoam	July June June June June June June June June	4 2 28 28 24 24 20 20 20 16	Aug. 14 Aug. 11 Aug. 7 Aug. 7 Aug. 3 Aug. 3 July 30 July 30 July 30 July 26	October 14		
Silver Ball White Jewell Irene Minong Pinocchio Arcadia	July July July July	8 8 12 12		October 15 October 15 October 20 October 25 October 28		
Sea Gull White Doty Rev. Bushnell Vesper Little America Chicago Pearl White Freida Nevada Seafoam Matchless Priscilla Cordova	Jluy July July July July July July July	16 16 19 19 19 22 22 25 25 25 25 28		November 1 November 1 November 8 November 10 November 10 November 15 November 15 November 20 November 20 November 20 November 23 November 30		

BETTER MUMS FOR 1946 FROM — Group Ball

POMS—SINGLES AND ANEMONES—WHITE (Continued)

Variety	Pinching Date		Shadii Dat		Flowering Daté	
Cameo	July	31			December 5	
Yukon		2			December 10	
Garza Supreme	Aug.	7			December 15	
Snow	Aug.	7			December 30	
Ivory Snow	Aug.	7			December 30	
Revelation		10		,	December 30	
	, .a.g.					
BRO	NZ					
Firebird	May	10	June	19	August 19	
Adelaide	May	10	June	19	August 19	
Roman Bronze	May	10	June	19	August 19	
Phylind	A A	17	June	26	August 26	
Firebird	May	17	June	26	August 26	
Adelaide	May	17	June	26	August 26	
Roman Bronze	May	14	June	23	August 26	
Red Daisy	Muy				_	
Firebird	May	24	July	3	September 2	
Adelaide	May	24	July	3	September 2	
Roman Bronze	May	24	July	3	September 2	
Red Daisy	May	21	June	30	September 2	
Navaho	May	17	June	26	September 2	
Robin Hood	May	17	June	26	September 2	
Firebird	May	31	July	10	September 9	
Adelaide	May	31	July	10	September 9	
Roman Bronze	May	31	July	10	September 9	
Red Daisy	May	28	July	7	September 9	
Navaho	May	24	July	3	September 9	
Robin Hood	May	24	July	3	September 9	
Bronze Bulkeley	May	24	July	3	September 9	
Sylvanna	May	20	June	29	September 9	
Cassandra	May	20	June	29	September 9	
Firebird	June	7	July	17	September 16	
Roman Bronze		7	July	17	September 16	
Red Daisy		4	July	14	September 16	
Navaho		31	July	10	September 16	
Robin Hood		31	July	10	September 16	
Bronze Bulkeley		31	Julý	10	September 16	
Bronze Masterpiece	May	27	July	6	September 16	
	May	27	Julý	6	September 16	
Cassandra	May	27	July	6	September 16	
Red Princeton	May	23	July	2	September 16	
Red Daisy	June	11	July	21	September 23	
Navaho		. . .	July	17	September 23	
Robin Hood		ż	July	17	September 23	
Bronze Bulkeley		7	July	17	September 23	
Bronze Masterpiece		3	July	13	September 23	
Sylvanna		3	July	13	September 23	
Cassandra		3	July	13	September 23	
Red Princeton	May	30	July	9	September 23	
Bronze Goldsmith	May	26	July	5	September 23	
Apricot Valencia	May	26	Julý	5	September 23	
Navaho		14	July	24	September 30	
Robin Hood		14	July	24	September 30	
Bronze Bulkeley	June	14	July	24	September 30	
Bronze Masterpiece	June	10	July	20	September 30	
Sylvanna	June	10	July	20	September 30	
Cassandra		10	July	20	September 30	
Red Princeton		6	July	16	September 30	
Bittersweet		6	July	16	September 30	
Bronze Goldsmith		2	July	12	September 30	
Apricot Valencia	June	2	July	12	September 30	

BETTER MUMS FOR 1946 FROM - Grog Ball

POMS—SINGLES AND ANEMONES—BRONZE (Continued)

Variety	Pinching Date		Date				
Navaho Robin Hood Bronze Bulkeley Bronze Masterpiece Sylvanna Cassandra Red Princeton Bittersweet Bronze Goldsmith Apricot Valencia	June June June June June June June June	21 21 17 17 17 13 13 9	July 31 July 31 July 31 July 27 July 27 July 27 July 23 July 23 July 19 July 19	October 7			
Navaho Robin Hood Bronze Bulkeley Bronze Masterpiece Sylvanna Cassandra Red Princeton Bittersweet Bronze Goldsmith Apricot Valencia	June June June June June June June June	28 28 24 24 24 20 20 16 16	Aug. 7 Aug. 7 Aug. 7 Aug. 3 Aug. 3 Aug. 3 July 30 July 26 July 26	October 14			
Adelaide Natoma Firebird October Bronze Robin Hood Navaho Red Daisy Bronze Bulkeley Bittersweet Sylvanna Cassandra Trianon Bronze Masterpiece Red Princeton Legal Tender Rusticon Red Rolinda Bronze Goldsmith Yolanda Argo Apricot Valencia Carnelia Crimson Carnelia Viking Mahogany Viking Cavalcade Sarong	July July July July July July July July	12 12 16 19 19 19 19 22 22 25 25 28 28 28 28 28 31 31 4		October 23 October 25 October 25 October 28 November 5 November 5 November 8 November 8 November 10 November 10 November 13 November 15 November 20 November 20 November 23 November 25 November 25 November 25 November 25 November 28 November 10 December 10 December 10			
	NK		•	December 19			
Pink Pearl Jewell Dark Pink Jewell Pink Pearl Jewell Dark Pink Jewell Captain Cook Pink Dot Jessie	May May May May May May May May	6 6 13 13 13 10 10	June 15 June 15 June 15 June 22 June 22 June 22 June 19 June 19 June 19	August 12 August 12 August 12 August 19			
Pink Pearl Jewell Dark Pink Jewell	May	20 20 20	June 29 June 29 June 29	August 26 August 26 August 26			

BETTER MUMS FOR 1946 FROM— Grog Ball

POMS—SINGLES AND ANEMONES—PINK (Continued)

Variety	Pinch Da		Shading Date	Flowering Date		
Captain Cook Pink Dot Jessie October Pink	May May May	17 17 17 14	June 26 June 26 June 26 June 23	August 26 August 26 August 26 August 26		
Pink Pearl Jewell Dark Pink Jewell Captain Cook Pink Dot Jessie October Pink Mrs. Bulkeley Dark Pink Bulkeley	A A	27 27 27 24 24 24 21 17	July 6 July 6 July 6 July 3 July 3 July 3 June 30 June 26 June 26	September 2		
Pink Pearl Jewell Dark Pink Jewell Captain Cook Pink Dot Jessie October Pink Mrs. Bulkeley Dark Pink Bulkeley Masterpiece		3 3 31 31 31 28 24 24 20	July 13 July 13 July 13 July 10 July 10 July 10 July 7 July 3 July 3 July 3 June 29	September 9		
Captain Cook Pink Dot Jessie October Pink Mrs. Bulkeley Dark Pink Bulkeley Masterpiece	May	7 7 4 31 31 27	July 17 July 17 July 17 July 14 July 10 July 10 July 6	September 16 September 16 September 16 September 16 September 16 September 16 September 16		
Captain Cook Pink Dot Jessie October Pink Mrs. Bulkeley Dark Pink Bulkeley Masterpiece Minuet Dark Pink Valencia Valencia	June June June June June May May	14 14 14 11 7 7 3 26 26 26	July 24 July 24 July 24 July 21 July 17 July 17 July 13 July 5 July 5 July 5 July 5	September 23		
Captain Cook Pink Dot Jessie October Pink Mrs. Bulkeley Dark Pink Bulkeley Masterpiece Minuet Dark Pink Valencia Valencia	June June June June June June June June	21 21 18 14 14 10 2 2	July 31 July 31 July 31 July 28 July 24 July 24 July 20 July 12 July 12 July 12 July 12	September 30 September 30		
Captain Cook Pink Dot Jessie October Pink Mrs. Bulkeley Dark Pink Bulkeley Masterpiece Minuet Dark Pink Valencia Valencia	June June June June June June June June	28 28 25 21 21 17 9	Aug. 7 Aug. 7 Aug. 7 Aug. 4 July 31 July 31 July 27 July 19 July 19 July 19	October 7		

BETTER MUMS FOR 1946 FROM - Grog Ball

POMS—SINGLES AND ANEMONES—PINK (Continued)

Pinching

Shading

Flowering

Variety	Pinching Date		Shading Date	Flowering Date
Captain Cook	July	5	Aug. 14	October 14
Pink Dot		5	Aug. 14	October 14
Jessie	5 51. 7	5	Aug. 14	October 14
October Pink	/	2	Aug. 11	Octaber 14
Mrs. Bulkeley		28	Aug. 7	October 14
Dark Pink Bulkeley	June	28	Aug. 7	October 14
Masterpiece	June	24	Aug. 3	October 14
Minuet	June	16	July 26	October 14
Dark Pink Valencia	June	16	July 26	October 14
Valencia	June	16	July 26	October 14
Louis	1 1	0	,	
Jewell		8	• • • • • • • • • • • • •	October 15
Dark Pink Jewell	,	8		October 15
Pink Pearl	,	. 8	********	October 20
Captain Cook		12		October 23
Jessie		12	* * * * * * * * * * * * * * * *	October 25
Pink Dot	July	12		October 25
October Pink	July	16	* * * * * * * * * * * * * *	October 28
Lillian Doty		16	* * * * * * * * * * * * * * * *	November 1
Mrs. Bulkeley		19	* * * * * * * * * * * * * * * *	November 8
Dark Pink Bulkeley	July	19	*******	November 8
Thyra		19	* * * * * * * * * * * * * * * *	November 10
Masterpiece	July	22	* * * * * * * * * * * * *	November 15
Freida	July	22	* * * * * * * * * * * * * *	November 15
Norma	July	25	* * * * * * * * * * * * * *	November 18
Minuet	July	28		November 25
Beautiful Lady	July	28	• • • • • • • • • • • •	November 25
Valencia	July	28	* * * * * * * * * * * * * * * * *	November 28
Dark Pink Valencia	July	28		November 28
Riviera	Aug.	2		December 10
Carillon	Aug.	7		December 15
Rosalind	Aug.	7	••••••••	December 20
POT PLANT	S —	YEL	LOW	
Gold Lode	July	6	July 6	September 2
Celestra	'	6	July 6	September 2
Blazing Gold		3	July 3	•
				September 2
	July	3	July 3	September 2
Mrs. Kidder		3 30	July 3 June 30	September 2
Mrs. Kidder	June	30	June 30	September 2 September 2
Mrs. Kidder Golden Glory Yellow Beauty	June June	30 26	June 30 June 26	September 2 September 2 September 2
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode	June June July	30 26 13	June 30 June 26 July 13	September 2 September 2 September 2
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra	June July July	30 26 13 13	June 30 June 26 July 13 July 13	September 2 September 2 September 2 September 9 September 9
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold	June July July July	30 26 13 13	June 30 June 26 July 13 July 13 July 10	September 2 September 2 September 2 September 9 September 9 September 9
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder	June July July July July July	30 26 13 13 10	June 30 June 26 July 13 July 13 July 10 July 10	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory	June July July July July July July	30 26 13 13 10 10	June 30 June 26 July 13 July 13 July 10 July 10 July 7	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder	June July July July July July July	30 26 13 13 10	June 30 June 26 July 13 July 13 July 10 July 10	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty	June July July July July July July July	30 26 13 13 10 10 7 3	June 30 June 26 July 13 July 13 July 10 July 10 July 7 July 3	September 2 September 2 September 2 September 9
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold	June July July July July July July July July	30 26 13 13 10 10 7 3	June 30 June 26 July 13 July 13 July 10 July 10 July 7 July 3 July 17	September 2 September 2 September 2 September 9 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder	June July July July July July July July July	30 26 13 13 10 10 7 3 17	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 17	September 2 September 2 September 2 September 9 September 16 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty	June July July July July July July July July	30 26 13 13 10 10 7 3 17 17	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 17 July 14	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 16 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty	June July July July July July July July July	30 26 13 13 10 10 7 3 17 17 14 10	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 17 July 17 July 14 July 10	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 16 September 16 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Colden Glory Yellow Beauty Cardonia	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10	June 30 June 26 July 13 July 13 July 10 July 7 July 3 July 3 July 17 July 17 July 17 July 14 July 10 July 10 July 10	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 16 September 16 September 16 September 16 September 16 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty	June July July July July July July July July	30 26 13 13 10 10 7 3 17 17 14 10 10	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 17 July 17 July 10 July 10 July 10 July 10 July 10 July 10	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Colden Glory Yellow Beauty Cardonia	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10 10	June 30 June 26 July 13 July 13 July 10 July 7 July 3 July 17 July 17 July 17 July 14 July 10 July 10 July 10 July 10 July 10 July 10 July 17	September 2 September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 16
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Cardonia Penrod	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10 10	June 30 June 26 July 13 July 13 July 10 July 7 July 3 July 17 July 17 July 17 July 10 July 10 July 10 July 10 July 10 July 17	September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 23 September 23
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Cardonia Penrod Yellow Beauty	June July July July July July July July July	30 26 13 13 10 10 7 3 17 17 14 10 10 10 17 17	June 30 June 26 July 13 July 13 July 10 July 7 July 3 July 17 July 17 July 14 July 10 July 10 July 10 July 10 July 17	September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 23 September 23 September 23
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Cardonia Penrod Yellow Beauty Cardonia	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10 10 17 17 17 17	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 14 July 10 July 10 July 10 July 10 July 17 July 13	September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 16 September 16 September 16 September 16 September 16 September 23 September 23 September 23 September 23
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Cardonia Penrod Yellow Beauty Cardonia Penrod	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10 10 17 17 17 17 17	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 14 July 10 July 10 July 10 July 10 July 17 July 19	September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 23 September 23 September 23
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Cardonia Penrod Yellow Beauty Cardonia Penrod Yellow Beauty Cardonia Penrod Sunray Bonnaffon DeLuxe	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10 10 17 17 17 17	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 14 July 10 July 10 July 10 July 10 July 17 July 13	September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 16 September 16 September 16 September 16 September 16 September 23 September 23 September 23 September 23
Mrs. Kidder Golden Glory Yellow Beauty Gold Lode Celestra Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Blazing Gold Mrs. Kidder Golden Glory Yellow Beauty Cardonia Penrod Yellow Beauty Cardonia Penrod Yellow Beauty Cardonia Penrod Sunray Bonnaffon DeLuxe Sungold	June July July July July July July July July	30 26 13 10 10 7 3 17 17 14 10 10 10 17 17 17 17 17 17 17 17 17 17 17 17 17	June 30 June 26 July 13 July 10 July 10 July 7 July 3 July 17 July 17 July 14 July 10 July 10 July 10 July 17 July 15	September 2 September 2 September 9 September 9 September 9 September 9 September 9 September 9 September 16 September 16 September 16 September 16 September 16 September 23
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BETTER MUMS FOR 1946 FROM — Grog Ball

Pinching

Shading

Flowering

POT PLANTS—YELLOW (Continued)

Variety	Dat	e	Date		Date	
Sunray		20	July	20	September	30
Bonnaffon DeLuxe	,	16	July	16	September	
Sungold		12	July	12	September	
	-				October	7
Yellow Beauty		31	July	31	October	7
Cardonia		31	July	31 31	October	7
Penrod	•	31	July			•
Sunray		27	July	27	October	7
Bonnaffon DeLuxe		23	July	23	October	7
Sungold	July	19	July	19	October	7
Yellow Beauty	Aug.	7	Aug.	7	October	14
Cardonia	Aug.	7	Aug.	7	October	14
Penrod	. –	7	Aug.	7	October	14
Sunray		3	Aug.	3	October	14
Bonnaffon DeLuxe		30	July	30	October	14
Sungold		26	July	26	October	14
Gold Lode		17			October	15
Celestra	_	17	• • • • • • • •		October	15
Mrs. Kidder	. –	21	• • • • • • • • •		October	20
Blazing Gold	. –	21	• • • • • • • •		October	25
Golden Glory		25	*****		November	10
Yellow Beauty		31 31	• • • • • • • •		November	10
Penrod Cardonia		31	*****		November	10
Sunray		31	•••••		November November	10 15
Bonnaffon DeLuxe		3	•••••			_
Friendly Rival		3	*********		November	
Sungold		6	*********		November	
Yellow Cordova		6	•••••		November	-
Imp. Tobin's Yellow		13	• • • • • • • •			15
POT PLAN	TS	WHIT	ΓE			
Christina		3	July	3	September	2
Granite State	,		July		September	2
Snow White		30	June	30	September	2
Richard Mandel		26	June	26	September	2
Christina		10	July	10	September	9
Granite State	,	10	July	10	September	9
Snow White	,	7	July	7	September	9
Richard Mandel Little America		3 29	July	3	September	9
			June	29	September	9
Christina	′	17	July	17	September	16
Granite State	,	17	July	17	_ '	16
Richard Mandel		14 10	July	14	September	
Little America	,	6	July	10	September	
Marketeer		2	July	6 2	September	
	•	_	July		•	16
Snow White		24 21	July	24	September	
	July July	17	July	21	September	
		13	July July	17 13	September	
Marketeer	,	9	July	9	September	
White Frick		5	July	5 _%	September	
	•	31			September	
A	July	28	July	31	September	
	July	24	July	28	September	
Read A .	July	20	July July	24	September	
	July	16	July	20 16	September	
7 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	July	12	July	12	September	-
Granite State		7			September	30
Snow White		4	Aug.	7	October	7
	. lag.	•	Aug.	4	October	7

MUMS FOR 1946 FROM - Y BETTER

POT PLANTS—WHITE (Continued)

TOT TEATTIS—W		E (Co	1161111	ueu/		
	Pinch	-	Shad		Flowerii	ng
Variety	Dat	e	Da	te	Date	
Richard Mandel	July	31	July	31	October	7
Little America	July	27	July	27	October	7
Marketeer	,	23	July	23	October	7
White Frick		19	July	19	October	7
Granite State	. '			14	October	14
Snow White	,	14	Aug.			14
		1]	Aug.	1 1	October	
Richard Mandel		7	Aug.	7	October	14
Little America		3	Aug.	3	October	14
Marketeer		30	July	30	October	14
White Frick	/	26	July	26	October	14
White Jewell	Aug.	13			October	15
Christina	Aug.	17			October	20
Granite State	Aug.	21			October	25
Snow White	Aug.	25			November	1
Little America	Aug.	31			November	10
Richard Mandel	Aug.	31			November	10
Marketeer	Sept.	3			November	18
White Frick		6			November	25
White Yuletide		6			November	28
Cordova		6	* * * * * * * * * * * * * * * * * * * *		November	
Margaret Moeller		11			December	10
Smith's Late White		13			December	15
	•					
POT PLANT	rs—	BRON	ZE			
Alamada	1	30		20	C t b	2
Alameda	June		June	30	September	
Glitters		30	June	30	September	
Apricot Queen		30	June	30	September	_
Ivanhoe		30	June	30	September	
Alameda	,	7	July	7	September	
Glitters		7	July	7	September	
Apricot Queen		7	July	7	September	
Ivanhoe	July	7	July	7	September	9
Alameda	July	14	July	14	September	16
Glitters	July	14	July	14	September	16
Apricot Queen		14	July	14	September	16
Ivanhoe	July	14	July	14	September	16
Gypsy	July	6	July	6	September	16
Mrs. Stahelin	-	6	July	6		
Apricot Queen		21	July	21	September	
Ivanhoe		21	July	21	September	
Gypsy		13	July	13	September	
Mrs. Stahelin		13	July	13	September	
Red Rolinda		9	July	9	September	
Bronze Frick	,	5	July	5	September	
	-				September	
Apricot Queen		28	July	28	September	
Ivanhoe		28	July	28	September	
Gypsy		20	July	20		
Mrs. Stahelin		20	July	20	September	
Red Rolinda		16	July	16	September	
Bronze Frick	-	12	July	12	September	30
Apricot Queen	Aug.	4	Aug.	4	October	/
Ivanhoe	Aug.	4	Aug.	4	October	_
Gypsy	July	27	July	27	October	7
Mrs. Stahelin		27	July	27	October	7
Red Rolinda		23	July	23	October	7
Bronze Frick		19	July	19	October	7
Apricot Queen		11	Aug.	11	October	14
Ivanhoe		11	Aug.	ii	October	14
Gypsy		3	Aug.	3	October	14
Mrs. Stahelin		3	Aug.	3	October	14
Red Rolinda		30	July	30	October	14
Note Notified	Jary	J V	,		·	

BETTER MUMS FOR 1946 FROM — Grog Ball

POT PLANTS—BRONZE (Continued)

POT PLANTS—BR	ONZ	. E	(Continued)		
Variety	Pinch Dat	_	Shading Date	Flowering Date	
			July 26	October 14	
Bronze Frick		26 21	•	October 25	
Alameda	, –			October 28	
Glitters		25		November 1	
Apricot Queen		25		November 1	
Ivanhoe		25	*****	November 10	
Melba		28		November 10	
Red Melba		28		November 15	
Gypsy		28		November 15	
Bronze Masterpiece		31		November 15	
Mrs. Stahelin	-	31		November 20	
Red Rolinda		3		November 25	
Bronze Frick	Sept.	3		140Verriber 25	
POT PLAN	ITS-	_P	INK		
Early October		6	July 6	September 2	
Justrite		6	July 6	September 2	
Rose Chochard		3	July 3	September 2	
J. W. Prince		30	June 30	September 2	
Early October		13	July 13	September 9	
		13	July 13	September 9	
Justrite		10	July 10	September 9	
Rose Chochard		7	July 7	September 9	
J. W. Prince		29	June 29	September 9	
Queen of Pinks Rose Chochard		17	July 17	September 16	
J. W. Prince		14	July 14	September 16	
Ethrelda		10	July 10	September 16	
		6	July 6	September 16	
Queen of Pinks		_	July 6	September 16	
Thyra J. W. Prince		6 21	July 21	September 23	
Ethrelda		17	July 17	September 23	
Queen of Pinks		13	July 13	September 23	
		13	July 13	September 23	
Thyra		5	July 5	September 23	
Helen Frick		5	July 5	September 23	
J. W. Prince		28	July 28	September 30	
Ethrelda		24	July 24	September 30	
Queen of Pinks		20	July 20	September 30	
Thyra		20	July 20	September 30	
Beautiful Lady		12	July 12	September 30	
Helen Frick		12	July 12	September 30	
J. W. Prince		4	Aug. 4	October 7	
Ethrelda		3 i	July 31	October 7	
Queen of Pinks		27	July 27	October 7	
Thyra		27	July 27	October 7	
Beautiful Lady		19	July 19	October 7	
Helen Frick		19	July 19	October 7	
J. W. Prince	,	ií	Aug. 11	October 14	
Ethrelda		7	Aug. 7	October 14	
Queen of Pinks		3	Aug. 3	October 14	
Thyra		3	Aug. 3	October 14	
Beautiful Lady		26	July 26	October 14	
Helen Frick		26	July 26	October 14	
Early October	,	13	20	October 10	
Justrite		17	*********	October 15	
Rose Chochard	-	17		October 20	
J. W. Prince		25	********	November 1	
Thyra		28			
Queen of Pinks		28	• • • • • • • • • • •	November 10	
Ethrelda		31	* * * * * * * * * * * * * * * * * *	November 10	
Masterpiece		31		November 12	
Helen Frick		_	••••••	November 15	
Beautiful Lady		6		November 25	
Riviera		6		November 25	
MITICIU	Jept.	1 1		December 10	

SOME CULTURAL FUNDAMENTALS

GEO. J. BALL

If a writer knows from experience what he's talking or writing about, some points of practical use can be gotten across with the printed page; but conditions vary greatly, making suggestions somewhat uncertain. For this reason the following Mum remarks will stay pretty close to fundamentals that with the exercise of common sense are applicable most everywhere.

SOILS

Some of the most successful growth we have had was thru gravel or soilless culture. On the other hand, we have noted top grade show flowers that were grown in the rather stiff yellow material that prevails in New Jersey. This clearly proves what can be done with any type of soil with proper moisture, fertility, and general management. With heavy soil plenty of strawy manure or other organic material is necessary not only for fertility effect, but for aeration as well, and this is of greater importance than is generally appreciated; for while it may not analyze high in fertility, thru its mechanical and aeration effect it seems to act on or unlock the fertility already in the soil. Organic material when combined with plenty of water seems to be nature's manure. When grown in gravel the pumping up and draining back of liquid nutrient sets up perfect aeration and is, we believe, largely responsible for the perfect Mum results we have had with it. The occasional difficulties with soilless culture are frequently due, we believe, to improper strength of the nutrient, usually excessively high concentrations.

Most of our growing has been in old greenhouse soil that has been used for years, and usually we make out very well with it. The tendency with such old material is to overdo the use of stable manure. To apply it annually will tend to over supply nitrogen that, if it gets too strong, burns the roots. It also accumulates disease that in the open is held down by the natural elements—frost and drenching rains. Probably the most costly disease that accumulates in soil is known as Verticillium, and this can best be destroyed in the soil thru steaming it; in fact, we believe it profitable to use this treatment for every crop of Mums unless it was used for the preceding crop. When steamed annually we find old greenhouse soil usually produces better results than will fresh soil. This is explained by its accumulated fertility that is wasted when changed annually because of the time required for it to break down and become available. If steaming is not done before planting Mums, at least thoroly saturate it with clear water. This tends to leach away any accumulated salts or other toxic material.

Testing soil for fertility and pH is another precaution that should be used for any greenhouse crop, especially before applying fertilizers. If this was more generally practiced we would meet with fewer of those unexplainable failures or mediocre results that sometimes puzzle us. The tendency with many growers is to over-fertilize. If a soil test points to an excess of any element it should be lowered thru leaching. Thoroly saturating the soil, as is done in the open, is another natural method of balancing soil irregularities. The pH for Mums should be around neutral. If much on the acid side, use lime at the rate of about 5 lbs. to each 100 sq. ft. of bench surface. If on the alkaline side, 1 lb. of agricultural sulphur to every 100 sq. ft. should restore it to around neutral.

RAISED OR GROUND BEDS

Ground or deep beds are of course more economical than are raised beds or "tables" as our veteran friends refer to them. But—if the sub soil is not naturally well drained thru being gravelly, chances are they will not dry out promptly as they should. This might be particularly so if the greenhouse site is flat or if at all low, in which case the water level during excessive rains might get dangerously close to the surface. It is pretty safe to suggest that if the sub-soil is a clayey one and the greenhouse site is located on

such as our level prairies or inclined to be at all low, which it of course should not be, the cost of two lines of 4 in. drain tile in a 4-5 ft. bed will be a very profitable expenditure. This is so not only for drainage but for steaming the soil; and these tiles have sub-irrigating possibilities, and are of some aeration value. However, promoting the prompt drying out of the soil is their principal value. While 3 in. tile is sometimes suggested and is evidently all right, we prefer 4 in. How deep to lay the tile depends some on depth of good soil in the bed. We use 6 in. siding for ground beds and get the tile down 12 in. below top of siding. We find this arrangement works out very well for steam sterilizing and sub-irrigating of such deep rooting crops as Peas, but we do not use this irrigating plan for Mums because of their shallower rooting habit. Six inch deep raised beds are of course the safest because of their 100% drainage. They are also indispensable for most bedding and pot plant growing but for cut flowers generally, and that includes Mums, the well-drained deep bed is not only less costly to build and maintain, but top results can be had with them if lower soil moisture is watched.

SPACING DISTANCE

This question is a rather vital one for commercial growers, for it does bear on the net results. We sometimes get the impression that there is a tendency to over space, but this may be due to lack of possible growth or late planting. These factors make it difficult to safely make definite suggestions. However, with big standard Mums planted in June or early July, 8 x 8 in. with 2 flowers per plant is standard commercial practice. With a 4 ft. raised bed this might be closed up some, say 7 x 8. This spacing with one flower to a plant will of course produce some larger flowers, but they will not return as much as will the two smaller flowers per plant with the same spacing. For most retail growers the net will be still higher if at least part of the planting carries 4-5 flowers per plant using the same or 8 x 10 spacing. In England the tendency is almost exclusively toward smaller flowers and more of them. They are largely grown there outdoors during the summer in what appears to be 10 in. pots with from 12-16 flowers per pot. In the Paris market the bigger they are the better they like them, so better make it some of each size. Pompons we like to space 6 x 7 or for strong growers planted early 7 x 8 in., top half way down at a height of 8 in. and carry up about three stems. As already stated, if side growths are trimmed out once from about the base, this plan makes for longer stems because there is no waste of the plant's energy in making brushy blind growth.

WATERING

This is probably the most important factor in the profitable culture of any crop. There is just one way to determine whether or not water should be supplied and that is to dig down 6 or 8 in. in deep beds and examine the soil. If it is wet enuf to ball up in the hand, chances are it should be let alone. While this comes close to being a hard and fast rule, we must also consider the strength and health of growth. A raised bed in the fall filled with roots and strong heavy growth can hardly be overwatered. On the other hand, with temperatures in the 90's growth is not nearly so active as during cool fall weather and water must be used accordingly. This is true of any cool temperature plant. Cinerarias and Calceolarias sometimes have quite a struggle to keep alive during mid-summer, but brace up wonderfully with cooling weather. While Mums tolerate summer heat better, they too brace up with fall weather. Although these conditions do not call for much difference in watering, the experienced grower knows that it means some adjustment must be made; and every grower knows or should know that stiff, clayey soil is very much more retentive of moisture than a soil filled with organic matter and perhaps some sand. The difference in their water requirements is considerable. We are inclined to believe that, generally speaking, most growers do not use as much water as they should with raised bench crops. We checked on this in a series of experiments with Carnations a few years back. One plot was given a full watering between each regular watering of the house. In other words, this check received 100% more than was considered ample, and

this was begun with planting in July. The result was as interesting as unexpected. Not only did the growth retain its dark color, but the crops came on more rapidly and the average stem length was about 6 in. ahead of the check, with production increase about 1 flower per plant. This check was carried on for 2 seasons with identical results, the variety Charm being used. While we do not believe Mums would tolerate this increase for their nature is different, we do feel that raised bed crops in open or light soil will frequently stand more water than they get.

SHADING FOR EARLY FLOWERS

Some classes of plants are influenced to form buds and flower by long or short days. Mums are definitely short day plants, by which is meant they can be induced to set buds at any time by artificially shortening daylight hours. This is easily done by enclosing the beds with black cloth that is applied around 5 o'clock in the evening and removed about 7 in the morning. With the sun shining the degree of darkness is not or cannot be made total and it need not be; but it should be fairly close to it, which means that there should be no openings to let light stream in. To support the cloth a framework is built over the beds, the height of which must of course clear the plants when in bud. If the crop is grown outdoors the height should clear the crop in full flower, for the cloth might be of value in protecting against frost. For the top of the bed we have used a good grade of sisalkraft paper. Where a number of adjoining beds are shaded, and there are no upright supports to interfere, the top including the walks should be entirely covered. This makes side covering for each bed unnecessary. Only the outer sides of the entire area need be covered.

We cover the top in 10 ft. sections by attaching the paper or cloth to a round 10 ft. pole that is easily unrolled over the bed. For the sides, better use black sateen cloth that is attached to an upper wire along which it can be pushed back and forth by means of rings attached to cloth and wire.

Planting for shading should be done about a month earlier than for regulation growing to insure stem length, which of course nearly stops with bud setting. We try to get our stock for early July shading planted the 15th to 20th of May. This gets in most October varieties around mid-September. If shading is complete, bud setting will be in evidence in about 3 weeks from start of shading but it should be continued a week or 10 days to insure the setting of plenty of laterals in the case of pompons. Standard buds should be about the size of a dime before shading is discontinued. Should an occasional day be missed in applying shade, or the shade not be as dense as it should be because of old used cloth, setting of buds will be delayed accordingly. On a quiet rainy evening with atmospheric moisture quite high, it might be better not to use the shade. To begin with, light intensity is low on such an occasion; also if plants are enclosed with high humidity conditions, any form of rot or disease that the plants might be susceptible to will be encouraged by it. Should any form of rot set in as a result of shutting off air circulation thru shading, the shading material should be removed after darkness is complete and replaced before daylight.

SELECTING OR "TAKING" BUDS

In giving dates in Mum catalogs for selecting buds it should be noted that it is based on mid-northern conditions and average timely planting dates. Also, because of more prolonged heat, setting buds in the south is delayed some and should be allowed for. As near as we can estimate, flowering in the south is a week to 10 days later than in the north, the difference not being so great with the quite late varieties. Further, the ever varying seasons in all sections have a bearing on the setting of buds, or the flowering dates. Accordingly, the catalog dates given can only be approximate and are intended for the northern states.

The two classes of buds are known as "crown" and "terminal". The latter is the last or second one and terminates the growth. However, a late planting, or some varieties

may not make a crown bud at all. The terminal or final bud comes usually surrounded by a few smaller ones or in a cluster. The larger center one is "taken" or "left," as you choose to express it, to become the flower. The crown bud might be referred to as a premature one, tho with some varieties it may, with favorable weather, make a good and an earlier flower. However, it does not generally produce the true shade or color of the variety it represents. When crown buds develop early they should generally be pinched out and the strongest break that follows selected to carry on. Except with a few extra early kinds, the next bud to form should be a terminal bud.

AS POT PLANTS

From early until late fall the florists' pot plant business is quite monopolized by the Mum in all its many types. Considering that practically all their development is made outside the costly overhead of artificial heat, the margin in growing them at prevailing prices is pretty good. There should be little or no losses connected with them for the flowers of unsold plants can be used as cut material.

Today's method of producing pot plants is not only more economical than that of the past, but it makes for greater compactness, a highly desirable point in any pot plant and it is sometimes missing in pot Mums. The general procedure is to plant 4 rooted cuttings or small pot plants in a 6 in. regulation deep pot that is generally preferred for pot Mums to the shallow pot or pan. Just why, I can't say. In our latitude this is usually done the first half of July with the early varieties, and some later will do for the Thanksgiving kinds. If the plants are to be shaded for early flowering, the planting into flowering pots should be done a few weeks earlier. While some planting is done directly with rooted cuttings, the most uniform results are to be had by using nicely started small pot plants. Uniformity in growth is a more important point in a pot plant than in a bench crop. When the cuttings get up 6-8 in. they should be topped back nearly half way down, later disbudded down to about 3 breaks to each plant. These breaks are again topped. Should the planting or potting of early varieties be done early in August, an additional cutting might be used to advantage, for some might not be strong enuf to make more than two good breaks. Furthermore, the late kinds, unless they are to be shaded, will generally have time enuf to get plenty tall from an early August planting. The cuttings available from the earliest topping are sometimes rooted and used for direct planting into 5 or 6 in. pots.

The best results with Mum pot plants are had on raised benches of low well ventilated greenhouses. The best growers use no material on the benches, because the moisture it gives off encourages decay of lower leaves. However, while they will take hold and start more promptly under glass, they can be very well grown in the open or moved into the open after an indoor start. In fact, to grow outdoors thru the hottest part of summer naturally insures a greater degree of compactness than will a hot greenhouse, but with the coming of cooler nights get them under glass to finish. The open air also has some advantage in greater freedom from insects, excepting perhaps the grasshopper. D.D.T. might fix him. When outdoors, watering must be watched more carefully. They do dry out rapidly and the tendency to over or under water might be increased, particularly if they are partly plunged. In fact, we feel safe in saying that under our conditions the outdoor advantages for the pot plant grower are largely offset by the disadvantages. Besides, with the standard price of well grown pot plants at around \$2.00 wholesale, the indoor space can be well afforded.

Another plan is sometimes used that is not nearly so costly and might be equally profitable. We refer to growing the plants in the open ground outdoors until early fall, then potting them individually into 5 or 6's. To make a shapely plant, this plan calls for naturally compact small flowered varieties and more attention to pinching thru the summer. With some protection from sun and air for a few days after potting, they recover surprisingly well, especially during the cool days of fall. The early hardy ones are

sometimes grown in this way and sold either potted or transplanted in full bloom into flower beds that have been destroyed by early frost.

If the heavy root system of well grown plants is confined to a comparatively small pot, feeding them can more easily be overdone than when growing in the open where an excess of fertility can be or is leached away. Applying a small spoon full of Vigoro 2-3 times during the growing season is common practice, but with a lean soil better use a mixture containing more nitrogen. After all, what feed a plant can use depends on its vigor or appearance and what was used in the soil when potting, so it's pretty hard to say anything definite about feeding. In applying any fertility to growing plants, check on it by omitting it with some plants. The results might prove that a lot of fertilizers are sometimes wasted.

Years back small flowered varieties including pompons were principally used for pot plants. Today the buying public largely chooses the big ones, so the same attention must be paid to disbudding such, as when grown for cutting. The class referred to as "disbudded pomps" and the Anemones and singles are also popular for this purpose. While the varieties used cover nearly all on the list that tend to be at all compact, the list of pot plant varieties in this catalog generally covers most popular varieties (see page 17).

American Grown Bulbs

We try to exercise the same care in the growing of our American Bulbs as we do in the production of our seeds. We can furnish high quality of stock in the following:

LILIES	DAFFODILS	IRIS	CALLAS
Croft	King Alfred	Wedgewood	White
Peerless (Gig.)	Spring Glory	Imperator	Yellow
Mexican (Gig.)	The First Laurens Koster	White Excelsion	Pink
Regale	Helios, etc.	Yellow Queen	

FREESIAS — ANEMONES — RANUNCULI — AMARYLLIS — GLADIOLAS

FANCY LEAVED CALADIUM — TUBEROUS ROOTED BEGONIAS — GLOXINIAS

Bulbs from Holland

Delivery—Fall, 1946

The ending of the war in Europe found the stocks of Hyacinths, Tulips, Daffodils, etc. in good shape. We delivered many orders this Fall (1945) with good, well grown, well graded and well packed bulbs.

Our growers in Holland advise us that they will be better able to ship your order next Fall (1946), of course stock of some of the most popular varieties may be on the short side, we advise you placing your tentative order, as early as possible, subject to confirmation later when prices are established.

Below is a list of the most popular Holland bulbs in the various colors and types, suitable for Florist use. Order varieties not listed, if you prefer them, if they are grown in Holland and we can secure them for you.

SPECIALLY PREPARED HYACINTHS

Orders for this stock must reach us before May 1st.

Sizes 19-up 18-19 17-18 14-15

Bismarck. Deep porcelain blue.

Dr. Lieber. Porcelain blue.

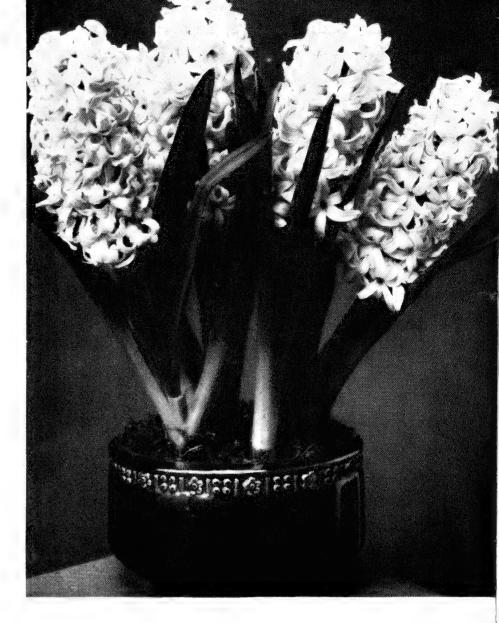
Gertrude. Rosy pink.

L'Innocence. Pure white.

Nic. Dames. Deep Pink, large flower, strong stem.

Nimrod. Bright pink.

Pink Pearl. Rosy pink, compact spike.



REGULAR HYACINTHS

Top Size (Exhibition) 19-up
1st Size (Extra Selected) 18-19
2nd Size (Selected Forcing) 17-18
3rd Size (Selected Bedding or Forcing) 15-16
5th Size (Selected Miniature) 14-15

RED AND PINK

Gertrude. Rosy pink, compact spike.

Lady Derby. Light pink, large bells, forces easily.

La Victoire. Rosy red, large well shaped spike, forces early.

Marconi. Bright pink, broad spike, beautiful flower, highly recommended for forcing and bedding, late.

Nic. Dames. Deep pink, large flower, very early.

Pink Pearl. Rosy pink, compact spike, very early.

Queen of the Pinks. Bright rosy pink, large compact spike.

PURE AND BLUSH WHITE

L'Innocence. Pure white, well formed broad spike. Early and excellent for forcing, also recommended for bedding.

Queen of the Whites. Pure white, large compact spike.

REGULAR HYACINTHS

(Continued)

BLUE AND LILAC

Bismarck. Deep porcelain blue, large broad spike, forces early.

Dr. Lieber. Porcelain blue, large well formed spike, recommended for early forcing.

Grand Maitre. Deep porcelain blue, large spike.

Lord Balfour. Purple lilac, forces early.

Perle Brilliant. Clear porcelain blue.

Queen of the Blues. Light blue with silvery appearance, large spike. Excellent for forcing and bedding.

YELLOW AND ORANGE

City of Haarlem. Bright golden yellow, large spike. The finest yellow Hyacinth.

Yellow Hammer. Golden yellow, good for forcing.



TULIPS

Are furnished in two sizes only—12-up and 11-12 CC

EARLY SINGLE TULIPS

Brilliant Star. Scarlet, dark center, fine for early forcing.

Couleur de Cardinal. Scarlet, purple shaded, large fine shaped flower with strong stem. A first class forcing and bedding variety.

General de Wet. Yellow, flushed with orange, large flower, fine for forcing and bedding. Sport of Prince of Austria.

Keizerskroon. Red with broad yellow edge, large flower, fine for bedding and late forcing.

Madame Gevers. (Herman Schlegel Maximus), sulphur yellow, large flower. Sport of LaReine Maxima.

Mon Tresor. Golden yellow, fine large flower, specially recommended for early forcing.

Prince of Austria. Bright orange scarlet, large flower, sweet scented, fine for forcing.

Sunburst. Yellow, flushed red.

Vermilion Brilliant. Vermilion, large flower, forces early.

White Hawk. Pure white, large flower, recommended for forcing and bedding.

EARLY DOUBLE TULIPS

Couronne D'or. Yellow, tinged orange. One of the best double Tulips for forcing in January.

El Toreador. Orange red, lighter towards the edge, early.

Marechal Niel. Golden yellow, shaded with orange red. Sport of Murillo.

Mr. Van Der Hoef. Pure yellow. Sport of Murillo.

Orange Nassau. Orange red. Sport of Murillo.

Peach Blossom. Deep pink. Sport of Murillo. **Schoonoord.** Pure white. The finest double white Tulip for forcing.

Triumph (**Triumphator**), deep pink. Improved Peach Blossom.

Murillo Sports Mixed. We highly recommend this mixture instead of the ordinary mixture. Murillo Sports flower at the same time and are of the same height.

DARWIN TULIPS

Aristocrat. Satiny pink, light towards the edge, large flower on tall strong stem, new.

Bartigon. Cochineal red, strong stem, large flower. One of the best red Darwin Tulips for forcing.

Campfire. Dazzling scarlet. Sport of Bartigon.

Niphetos. Lemon yellow, new.

Pride of Zwanenburg. Salmon pink, lighter towards the edge.

Princess Elisabeth. Bright pink, strong stem, highly recommended.

Rose Copland. Lilac rose. Sport of Wm. Copland.

Sunkist. Golden yellow, large flower of splendid form.

The Bishop. Violet blue, large flower, tall stem.

Utopia. Bright red, large flower, new.

William Copland. Lavender. The well known Darwin Tulip for early forcing.

William Pitt. Glowing red, recommended for early forcing.

Zwanenburg. Ivory white, tall stem, large flower, fine for forcing.

Tulips (continued)

MENDEL TULIPS

Brightling. Salmon orange.

Early Queen. Satiny pink, forces Christmas' time.

Hildegarde. Dazzling scarlet, strong stem. One of the earliest Mendel Tulips.

Krelage's Triumph. Deep red, strong stem, forces about New Year's time.

Pink Gem. White with pink edge, large flower, forces about Christmas.

Queen Augusta. Deep apple blossom, forces middle of January.

Scarlet Admiral. Bright red, large flower, good for forcing in February.

Scarlet Wonder. Orange red, forces beginning of January.

Sultane. Rosy Red, good for forcing end of January.

Weber. Opens white changing into pink, large flower, strong stem. Forces end of January.

White Sail. White, forces end of January.

Zenith. Deep rosp pink, large flower, forces beginning of February.

PARROT TULIPS

Blue Parrot. Clear lilac blue. Sport of Bleu Aimable.

Red Champion. Cochineal red. Sport of Bartigon.

COTTAGE TULIPS

Advance. Poppy-red with silvery shade on outside of petals, very large flower.

Albino. Pure white, large flower, strong stem, good for forcing.

Carrara. Pure White, good for forcing.

Golden Harvest. Lemon yellow, large flower, good for forcing.

Inglescombe Yellow. Pure yellow.

John Scheepers. Yellow, very large flower.

Mothersday (Lemon Queen), light yellow, good for forcing.

Themis. Pure White.

Wallstreet. Lemon yellow, good for forcing.

TRIUMPH TULIPS

Alberio. Deep wine red, early forcer.

Crater. Deep carmine red, large flower.

Edith Eddy. Carmine red, lightly edged white, good for forcing the middle of January.

Elizabeth Evers. Fuchsia pink, large flower, forces middle of February.

Korniforos. Crimson red, large flower, strong stem, forces middle of February.

Telescopium. Reddish violet, to the base violet blue, early and easy forcer, large flower of great substance.

TULIPA SPECIES

Madame Lefeber. Vermilion red, enormous flower.

NARCISSUS

JUMBO-DN No. 1-DN No. 2

TRUMPET DAFFODILS

Golden Harvest. Golden yellow throughout, very large well shaped flower, highly recommended for early forcing.

King Alfred. Clear yellow throughout. The finest yellow Daffodil.

Magnificence. Golden yellow. One of the earliest Daffodils.

Mrs. E. H. Krelage. Perianth white, trumpet creamy white.

Pride of Hillegom. Creamy white perianth. Bright yellow trumpet, good forcer.

Rembrandt. Golden yellow throughout, well formed flower, early forcer.

Spring Glory. Perianth white, trumpet yellow, recommended for early forcing.

Wrestler. Yellow, good for early forcing.

BARRII NARCISSUS

Firetail. Ivory white perianth with orange red cup, tall stem, very substantial flower.

Lady Moore. Perianth white, cup yellow edged orange.

Mrs. Barclay. Ivory white perianth, cup yellow with orange red edge.



DOUBLE DAFFODILS

Daphne. Pure white. The double Poeticus Ornatus.

Van Sion. The well known double golden yellow Daffodil.

NARCISSUS

(Continued)

LEEDSII NARCISSUS

Daisy Schaffer. Perianth white, creamy cup, greenish tinted at the mouth.

POETAZ NARCISSUS

Cheerfulness (double Poetaz Elvira). White with yellow petals in the center.

Early Perfection. Lemon yellow, very free flowering. One of the earliest Poetaz Narcissus for forcing.

Geranium. Perianth white, cup orange red.La Fiancee. White perianth, orange cup, very early.

Laurens Koster. Pure white with yellow cup, large truss on tall stem.

L'Innocence. White perianth, yellow cup, free flowering.

Winterpride. White with orange cup, very early.

IMCOMPARABILIS DAFFODILS

Carlton. Clear yellow throughout, large well shaped flower.

Fortune. Perianth yellow with deep orange cup, early forcer. The best Incomparabilis in existence.

Havelock. Clear yellow throughout, very large well shaped flower.

Helios. Perianth sulphur, cup bright orange, free flowering.

John Evelyn. Creamy white perianth, orange cup.

Yellow Poppy. Sulphur yellow throughout, large flower.

POETICUS NARCISSUS

Actaea. Pure white perianth and scarlet cup, very large flower.

Ornatus Maximus. Perianth pure white, cup yellow edged deep red, recommended for early forcing.

MISCELLANEOUS BULBS AND TUBERS

Chionadoxa Luciliae (Glory of the Snow), Sky blue with white eye.

Eranthis Hyemalis (Winter aconite), yellow.
Galanthus Nivalis Simplex. Single snowdrop.
Galanthus Nivalis Plena. Double snowdrop.

Muscari Armeniacum. Sky blue.

Muscari Botryoides Albus. White.

Muscari Heavenly Blue. Sky blue.

Scilla Campanulata. Alba Maxima, pure white.

Scilla Campanulata Excelsior, blue, large flower.

Scilla Campanulata Rose Queen. Pink.

Scilla Nutans Alba Major, pure white.

Scilla Nutans Blush Queen. Pink.

Scilla Nutans Major. Blue. The well known Blue Bell.

Scilla Sibirica. Sky blue, 1st size.

CROCUS

Baron Brunow. Bright purple blue.

King of the Whites. Snow white, large flower.

Mont Blanc. Pure white. The most popular white variety.

Navy Blue. Clear blue, large flower.

Purpurea Grandiflora. Bright purple. The largest of the purple varieties.

Remembrance. Purple blue.

Snowstorm. Pure white, large flower.

Striped Beauty. Blue white striped.

Large Yellow.

In addition to the foregoing Bulbs we can furnish almost any other variety that is imported from Holland. Send us a list of your needs; we will send you our acknowledgment with prices quoted as soon as these prices are established.

A well prepared folder giving cultural instructions for forcing Holland grown bulbs will be mailed with each order, or on request. BETTER CARNATIONS FOR 1946 FROM— Grog Ball

CARNATIONS

DELIVERY—WINTER 1945-1946

Last Winter we sold more cuttings than ever before. This Fall, we have four times as many orders booked for next season as we ever had at this date.

Weather, transportation and propagation troubles have caused many serious delays in shipping our orders when wanted. We will endeavor to handle our orders more efficiently this year.

Some varieties are already sold out for delivery before March. If you need good clean cuttings get your order to us at once.

Orders will be shipped in rotation, we can not promise delivery exactly when wanted. Shipments will start in November, continue through the early part of December and will be discontinued over the Holidays and then be resumed in January.

Orders for winter delivery should be placed at once. Below is a list of varieties available this season. **Prices quoted, but subject to change.** If other varieties are wanted that are not on this list, it may be possible for us to secure them for you.

WHITE VARIETIES	Pric	ce per 1000
Arundel—Similar in form to Olivette. Many growers prefer it to Olivette. Better winter bloomers		160
		200.00
symmetrical and spicy flowers, and sturdy medium length stems	8.50	75.00
teristics as its parent except for color	8.50 . 8.50	75.00 75.00
large size with moderate splitting. Best grown in a cool house	8.50	75.00
LIGHT PINK		
Virginia Supreme—A better Virginia	15.00	125.00
ing qualities of its parent		125.00 75.00
its clean stems which require very little disbudding	8.50	75.00
DARK PINK		
Virginia Miller—The dark Pink Virginia	15.00	125.00
good dark pink and does not fade in Spring		80.00
first quality flower but not a heavy producer. Does best for Spring flowers	8.50	75.00
SALMON PINK		
Salmon Virginia. A good salmon sport of Virginia	12.00	100.00
flowers large, and the calyx is strong	20.00	150.00
stems. A good keeper	15.00	125.00

Großall BETTER MUMS FOR 1946 FROM-

Carnations (continued)

MEDIUM PINK	Price	e per 1000
Dorothy Napier—(Patented). The flowers are large and very full, and the	100	1000
Calyx does not split. Production compares favorably with all varieties of this color and quality	20.00	150.00
Giant Fisher—Another sport of Peter Fisher which will be welcomed by admirers of the parent, because it adds size to the other good qualities of		
the Fisher family	10.00	80.00
Peter Fisher—Well known for its profitable productiveness and clear fringed pink flowers	8.50	75.00
Pink Treasure—(Patented). A medium or rose pink flower of large size and full appearance		
Rosalie—(Patented). A very excellent Carnation when well grown. The	20.00	150.00
flowers are medium to large, similar in color to the old Ward and good keepers	20.00	150.00
Virginia Rose—Well liked whenever Virginia is popular. It is much deeper	20.00	130.00
in color than its parent, but lighter in color than Ward. Very uniform in production and quality, an excellent keeper	8.50	75.00
RED		
No. 16 Red—Color the King Cardinal. Quality far superior. Stock very		
limited	20.00	150.00
William Sims—(Patented). King Cardinal—(Patented). A consistently good variety with a production	20.00	150.00
record that is as glowing as its flower is appealing	12.00	100.00
petals. The calyx does not split. It propagates easily, produces well and		
grows well	20.00	150.00
CRIMSON		
Seth Parker—(Patented). Rich bright crimson. The flowers are larger than		
other varieties in this class, stems excellent, splitting unknown. Flowers can be harvested for the Christmas season	20.00	150.00
Mrs. C. W. Weld	12.00	100.00
YELLOW		
Miller's Yellow—The best yellow	12.00	100.00
MISCELLANEOUS	Price	per 1000
Pelargonium—The color is a mottled effect of crimson-wine on a white	100	1000
base; the blooms are large and the stems average length with strength to carry the flowers gracefully	12.00	100.00
Scarlet King—A sport of Pelargonium with more vigor and brighter lighter	12.00	
coloring	12.00	100.00
but a very pleasing orange-apricot coloring which is penciled with pink Golden Wonder —One of the best of the yellow variegated varieties; it produces	8.50	75.00
large well filled blooms on medium length stems. Flowers split some but it makes an excellent retail novelty	8.50	75.00

Minimum amount of any one variety is 100 cuttings. Cuttings are shipped by Railway Express collect. None shipped C.O.D. Our responsibility ceases when delivery is made to the Transportation Co. All claims for stock damaged in transit, must be made direct to the Railway Express Agency.



r New Pot Plant Mun "Granite State"

We believe that our new pot plant Mum GRANITE STATE is so near 100% perfect that it will continue to be catalogued for many years. It is as hard to the touch as little "Pinocchio" in front. Note the perfect foliage pushed right up against the snow white, ball shaped flowers. Open flowers shaded: photoed September 22nd. Pot plants of it well in bud. While we own and enjoy the privilege of supplying GRANITE STATE, credit for producing it belongs to W. D. Holley while in charge of Floriculture at the University of New Hampshire.

